

CMB-S4 Science Collaboration Bylaws

Version 1.6

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Version	Purpose/Changes	Date Proposed	Date Ratified
1.0	First complete draft after discussions at March 2018 Collaboration Workshop	03/12/2018	
1.1	Amendment to Section 3.4 on Governing Board meetings	09/05/2018	11/08/2018
1.2	Amendment to Section 9.1 to extend deadline for creation of publication policy	02/12/2019	03/13/2019
1.3	Amendments to Sections 8.1, 8.4, and 8.6 of the CMB-S4 Bylaws, regarding postdoc membership	03/04/2019	05/16/2019
1.4	Amendments to Section 6, 6.3 on GB elections, deletion of Appendix A (First election procedures)	03/06/2020	04/20/2020
1.5	Amendments to Section 9 regarding the speakers and publication policies	03/06/2020	02/05/2021
1.6	Amendments to S8.4 for the transition from Postdoctoral to Senior membership, revises “Intended Senior Membership Status”	01/21/2021	04/01/2021

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1 Preamble

The purpose of the CMB-S4 Science Collaboration (hereafter the Collaboration) is to conduct a science program centered on the future Stage-4 ground-based cosmic microwave background (CMB) experiment, CMB-S4. The Collaboration activities include advocating for, and advancing the design of, CMB-S4. The Collaboration is expected to play a major role in the establishment of the CMB-S4 Construction Project (hereafter the Project) and in its operations, and the Collaboration is expected to lead the scientific analysis. CMB-S4 will deliver a highly constraining data set with which any model for the origin of the primordial fluctuations—be it inflation or an alternative theory—and their evolution to the structure seen in the Universe today must be consistent. This document outlines the Collaboration governance and organization of scientific activities.

1.1 Collaboration Governance Objectives

The structure of the Collaboration was designed to adhere to the following principles:

- The Collaboration organization will be based on models used in other successful large DOE- and NSF-supported experiments.
- The Collaboration will strive to maximize the scientific return of the experiment, producing high-quality science in a timely manner and promoting full utilization of the data through public data releases after a suitable proprietary period.
- The organizational structure of the Collaboration will enable broad representation of its Members, and encourage consensus in decision making.
- All Members of the Collaboration will be expected to contribute to the success of the Collaboration and the Project through work on one or more areas of necessary infrastructure. The organizational structure should incentivize Collaboration Members to contribute to the advancement of CMB-S4 including work on hardware, software, testing, commissioning, operations, common science infrastructure, documentation, publications, management tasks and serving in leadership roles.
- Towards this end, the Collaboration should provide appropriate credit to data analysts and builders of hardware and/or software; provide leadership opportunities and other opportunities to promote career advancement; motivate people to work

together towards common goals; and provide a healthy collaboration culture that establishes standards for behavior consistent with high ethical standards.

1.2 Definitions

The CMB-S4 Construction Project (the Project) is distinct from the CMB-S4 Science Collaboration (the Collaboration). The Project will be responsible for final design and construction of CMB-S4, which by necessity will have strong oversight from and report directly to the associated funding agencies and other sources of funding. The Collaboration and Project must work closely together; many Collaboration Members are expected to have important roles within the Project. The Project ends when construction is completed and operations begin. Operations may be the responsibility of the Collaboration, or may be conducted by a distinct entity working closely with the Collaboration. These Bylaws pertain only to the Science Collaboration and do not specify the structure of, or relationship to, the Project or Operations.

Throughout this document, a “supermajority vote” is defined as a result with more than two-thirds of the votes received in favor of the motion. “Supermajority votes” require approval by two-thirds of the entire voting body. A “majority vote” requires that more than half the votes received are in favor of the motion. A “quorum” for a meeting is defined as the presence of a majority of a body’s members. For collaboration-wide votes, a “Voting Member” is defined as a Senior Member or a Postdoctoral Member (see §8.2). “*Ex officio*” Members of a governance body are those whose membership is owing to their roles elsewhere in the Collaboration. For example, the Science Council Chairs (§7.1) are *ex officio* Members of the Executive Team (§5). In these bylaws, “Working Groups” are open to all Collaboration Members, and “Councils” have multiple Working Groups reporting to them, while “Committees” do not.

2 Overall Structure

The governance structure of the CMB-S4 Collaboration is illustrated in Figure 1. The Governing Board (GB) provides oversight to an Executive Team (ET) led by two equal co-Spokespersons. A number of Councils, Committees and Working Groups carry out necessary work to enable the overall science objectives of the Collaboration. The overall scope, selection of, and interplay among these governance entities is described in the

remainder of this document.

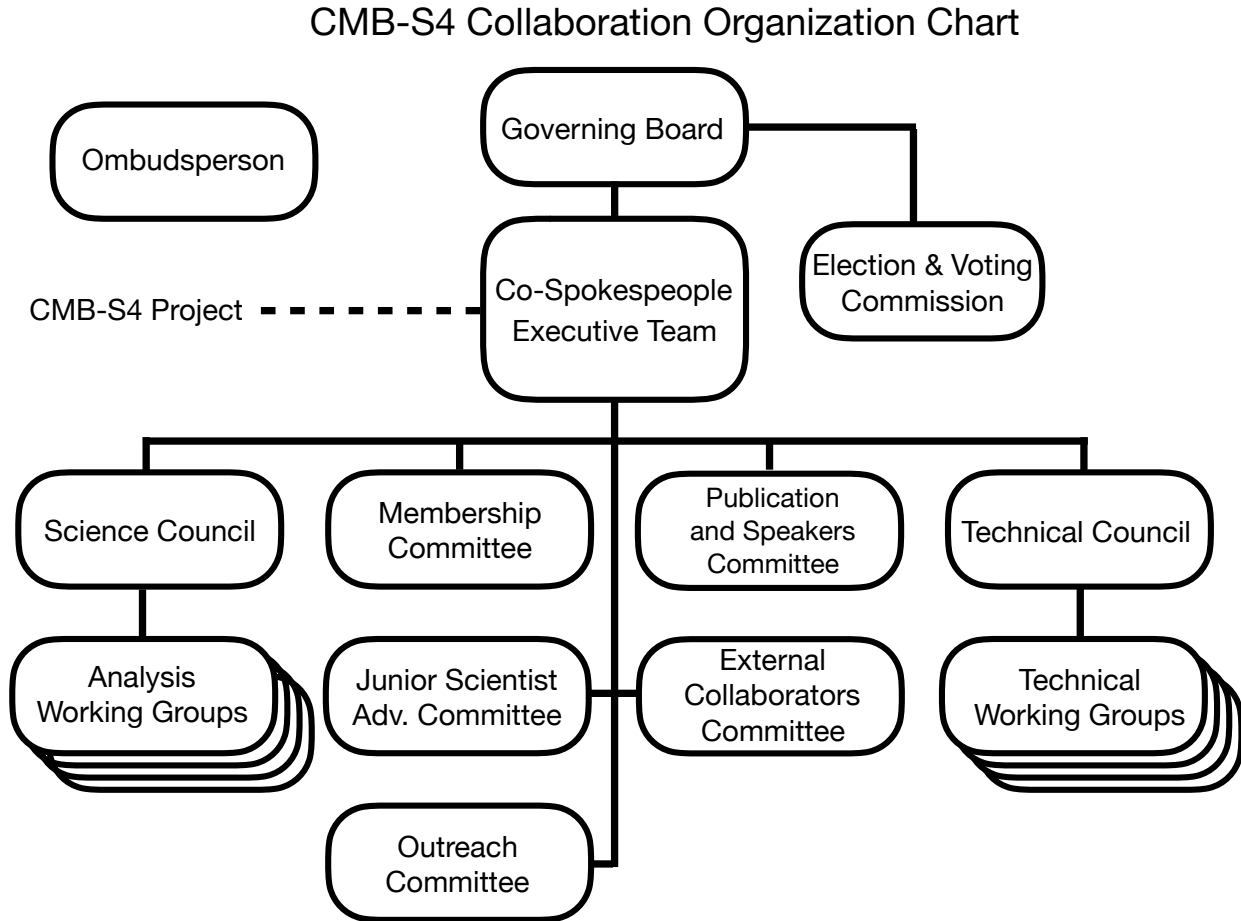


Figure 1: CMB-S4 Collaboration Organizational Chart

3 Governing Board

The Governing Board (GB), a body whose composition is designed to be representative of the membership of the Collaboration as a whole, is the policy-forming body of the Collaboration. Its other key role is oversight of the Spokespersons.

3.1 Scope

Any powers not explicitly assigned to a different governing body in these Bylaws reside in the Governing Board. Governing Board responsibilities include, but are not limited to:

- Oversight of the overall progress, status and functioning of the Collaboration.
- Oversight of the Spokespersons and their activities. The GB charges the Spokespersons to prepare a yearly plan for the Collaboration. The plan must be ratified by a supermajority vote of the GB. The GB charges the Spokespersons to carry out specific duties for the Collaboration, including, but not limited to, Collaboration reviews, and reviews of the Councils and Committees operating under the auspices of the Spokespersons and the Executive Team. The GB may require a detailed verbal, or written report from the Spokespersons on any action. The GB may remove a Spokesperson by a supermajority vote if their performance is insufficient.
- Approval and revision of Collaboration Bylaws, including the Membership and Publication and Speakers policies. The currently ratified version of the Bylaws must be available on a public website. Amendment of the Bylaws requires a supermajority of the GB. Major changes (see §11) must be ratified by the Voting Members of the Collaboration.
- Formal acceptance of new Collaboration Members, and resolution of membership conflicts/issues, such as the removal of Members from the Collaboration. The change in status of a Member (including acceptance or removal) requires approval by a supermajority of the GB.
- Organization of elections for Spokespersons, GB Members, and other elected Collaboration officials (see §6).
- Removal of any Collaboration Member from an elected or appointed leadership role in the event of major failings of professional conduct, or gross insufficiency of performance. Removal requires a supermajority vote of the GB. Leadership roles include, but are not limited to, the Spokespersons, GB members, ET members, and Council and Committee members and chairs.
- Approval of additional long-standing subcommittees. This may include promotion of short-term subcommittees established by the Spokespersons to long-term status.

3.2 Board Representation

The GB is composed of 19 members, 18 drawn from the Senior Members of the Collaboration and one drawn from the Postdoctoral Members (see §8.1). The Spokespersons and other members of the Executive Team may not serve contemporaneously on the GB. The length of a term of service on the GB is two years for Senior Members and one year for the Postdoctoral Member; GB members are allowed to serve at most two terms consecutively. To ensure that the board is truly representative of the Collaboration, prior to each GB election, the GB and the Spokespersons (or the ICCC for the first election) will particularly encourage suitable candidates from a broad range of backgrounds to self-nominate for GB membership. Further details on the election of GB members is provided in §6.3.

3.3 Governing Board Chair, Vice Chair and Secretary

The GB Chair is responsible for scheduling GB meetings, coordinating requests for reporting from the Spokespersons, distributing the agendas, and chairing the meetings. The GB Chair only votes on matters before the GB if their vote is needed to break a stalemate. The GB Vice Chair will preside if the Chair is absent. A GB Secretary will be delegated to take and distribute the minutes to the GB, and provide summaries of the meetings to the Collaboration.

Every year, starting with the inception of the GB, the Chair and Vice Chair of the GB are elected from the GB membership to serve one-year terms. The Secretary of the GB is chosen informally by the GB Chair to serve during their term.

3.4 Governing Board Meetings

The first Governing Board will establish rules for its meetings after electing its Chair. This first meeting will be held no later than two months after the selection of the GB. Agendas for scheduled meetings will be available to the full Collaboration in advance. It is expected that the GB will meet no less than quarterly to ensure adequate attention to its duties. Such meetings will occur approximately twice per year in closed session at every Collaboration meeting and additional meetings will be held by telephone or video conference. The GB Chair may call special meetings as needed. The Spokespersons are typically asked to attend GB meetings, with the exception of any Closed Executive Sessions during the meetings. The GB Chair can invite other observers at their discretion.

Each meeting requires a quorum to conduct official GB business. Except where a supermajority vote is required, a motion will carry if more than half of the entire GB membership votes in favor of the motion. GB Members may cast votes directly or by proxy. GB votes can be held by email or other online method. Summaries of the GB meetings are distributed to the full Collaboration by the GB Chair or GB Secretary. These summaries must include meeting attendance and the results of any votes taken. It is the expectation that GB Members participate in the majority of meetings. If a GB Member fails to participate in $\geq 50\%$ of GB meetings in a year, their seat will be open to election during the following cycle and they will be barred from the board for a two-year term.

3.5 Election and Voting Commission

The GB appoints the Chair and two additional members of the Election and Voting Commission (EVC). The EVC is charged with conducting elections as spelled out in §6. The EVC acts independently of the GB, but any points of substantive disagreement amongst the EVC members should be referred back to the GB. Commission members serve two-year terms ordinarily. However, the GB may choose to extend the first term of the Chair to three years, to allow staggering of the membership for improved continuity between commissions. Commission members may be removed with a supermajority vote of the GB.

3.6 Removal of Members from Leadership Roles

The GB must inform the Collaboration of its decision to remove a Member from a leadership role within one working week after the vote to remove. In the event of a removal of someone from an elected or appointed position, the GB may make an off-cycle appointment or hold a special election to fill the open position quickly, or wait until the next election cycle.

4 Co-Spokespersons

4.1 Scope

The leadership of the Collaboration resides with two equal co-Spokespersons. Each Spokesperson participates actively in the management of all aspects of the Collaboration

and, as the executive officials of the Collaboration, both are responsible for its day-to-day management. To carry out their duties, the Spokespersons are expected to solicit advice from the Executive Team, the GB and the Collaboration at large.

The Spokespersons may appoint up to two members of the Executive Team. This appointment flexibility will enable the Spokespersons to obtain expert advice on an as-needed, short-term basis for matters including (but not limited to) technical and managerial topics. Such appointees require approval by the GB, and may be removed from the Executive Team at the Spokespersons' discretion. Appointments are limited to two years, but may be renewed with approval of the GB.

Spokesperson responsibilities include, but are not limited to the following:

- Submitting a yearly plan for the Collaboration to the GB for approval.
- Serving as the primary interface of the Collaboration with the Project (once established), partnering institutions, the government agencies, private and public funding institutions, scientific organizations, and the media. Reports on such activities will be provided on a semi-annual basis or by request to the GB.
- Assuring public dissemination of scientific results.
- Creation of short-term ad hoc committees for the purpose of such tasks as creation of review materials, white papers, exploration of new partnerships, etc.
- Organizing and running Collaboration meetings.
- Assuring the Collaboration public and private websites are maintained, including the posting of all governance roles and responsibilities, and Collaboration documents.
- Carrying out other duties as charged to them by the GB.

Spokespersons are elected to two-year terms. The election process is detailed in §6. To facilitate interactions of the Collaboration with the agencies and national laboratories, term limits will not be required prior to the establishment of the Project. Two-term limits are expected to be imposed by the GB amendment of the Bylaws after the CMB-S4 Construction Project is firmly established with the Project leadership team in place.

5 Executive Team

5.1 Scope

The Executive Team (ET) is an elected and appointed board led by the Spokespersons. It consists of up to 10 members: the Spokespersons, the two elected co-Chairs of the Science Council, the two co-Chairs of the Technical Council, the Chair of the Membership Committee, the Chair of the Publication and Speakers Committee, and up to two members appointed by the Spokespersons. The ET is the agile decision-making body in the Collaboration with the ability to address the day-to-day collaboration issues. The ET is structured to facilitate the flow of information to the Spokespersons from the Collaboration and vice versa, as well as to provide a sounding board for the Spokespersons.

The Executive Team has three main roles:

- to provide leadership on scientific, membership, financial, and organizational decisions and issues. The decisions will ultimately be made by the Spokespersons, but will be discussed and reasoned through the Executive Team. In the event that the Spokespersons do not agree on a particular topic, the ET will hold a vote requiring only a majority.
- to ensure Spokesperson decisions are made in the best interests of the Collaboration. Any two ET members may call for a vote on any topic, and if $\geq 50\%$ of the ET is in disagreement with proposed activities of the Spokespersons, the issue is referred to the GB for further discussion.
- to aid the Spokespersons in being the Collaboration liaisons to the Project, both in the pre-Project development phase and after it is officially established.

5.2 Executive Team Meetings

The Spokespersons will chair the meetings, provide the agendas, and establish rules for the ET meetings. The first meeting will be held no later than two weeks after the election of the Spokespersons and the Council and Committee Chairs. It is expected that the ET will meet no less than twice a month to ensure adequate attention to its duties. Meetings can be called on the initiative of a Spokesperson or at the request of an ET member, provided that a Spokesperson agrees. Minutes that summarize the ET meetings will be distributed to the Collaboration. Each meeting requires a quorum to conduct official ET

business. It is the expectation that ET members participate in the majority of meetings; ET members who fail to participate in a majority of meetings over a one-year period will be replaced in the nearest election cycle and barred from the ET for a two-year term.

6 Elections

All elected positions of the major bodies in the CMB S4 Collaboration serve two-year terms (with the exception of the Postdoctoral Member on the GB, who serves a one-year term). Most positions have term limits. Elections for GB Members are arranged so that $\sim 50\%$ of the members will be up for election each year. New appointments take office on July 1 in the year of their election.

As there are restrictions on the overlap of elected officials between various governing bodies, elections are timed to provide Collaboration Members multiple opportunities to participate in Collaboration governance. In a given election year the ordering proceeds as follows: elections are held first for the Spokespersons, as needed. Next, elections are held for the Science Council co-Chairs, Membership Committee Chair and the Publication and Speakers Committee Chair, as needed. A third election is held to fill available positions for the Governing Board. Elections for positions outside the top levels of major bodies occur when required as such officials are not prohibited from serving other elected roles.

Each candidate provides a Candidate Statement to the EVC, which makes them available to the Collaboration via the CMB-S4 internal web page prior to the balloting. Votes are cast anonymously online by Voting Members, with the elections managed by the EVC, and timed to permit adequate time to evaluate the slates of nominees for each election and still assure the new appointments are able to take office on July 1. The EVC, in consultation with the GB, determines the detailed timing of the balloting and determines procedures for dealing with any election situations not anticipated in the Bylaws.

6.1 Spokespersons

Spokespersons are elected to two-year terms. All Senior Members (see §8.1) may run for these positions. If a member of the GB is elected as a Spokesperson, they must resign their GB seat prior to the start of their Spokesperson term and this vacancy will be filled in the next GB election.

Prior to the election, Voting Members are asked to nominate individuals for Spokesperson to the Election and Voting Commission. Each Voting Member may nominate candidates and self-nominations are accepted. After a nomination period, the EVC consults with the nominees to ascertain their willingness to stand for the election.

A ranked voting scheme approved by the GB prior to the election is used to determine the Spokespersons. Adoption of a ranked voting scheme that differs from that used during the previous election requires approval of a supermajority of the GB. Elections are to be held sufficiently early such that new electees may interact with the current Spokespersons and ET for three months prior to taking office to ensure a smooth transition. In the event of a tie preventing selection of two Spokespersons, a runoff election will be held to choose among the candidates with the same ranking.

6.2 Council and Committee Chairs

The co-Chairs of the Science Council, and the Chairs of the Membership Committee and the Publication and Speakers Committee are elected to two-year terms. All Senior Members (see §8.1) may run for these positions. If a Voting Member of the GB is elected to one of these positions, they must resign their GB seat prior to taking office as Chair, and this vacancy will be filled in the next GB election.

Prior to the election, Voting Members are asked to nominate individuals for the Chair positions to the EVC. Self-nominations are accepted. After a nomination period, the EVC consults with the nominees to ascertain their willingness to stand for the election. Candidates are only allowed to stand for one open position in a given election. A ranked voting scheme approved by the GB prior to the election is used to determine the Science Council Co-chairs. Adoption of a ranked voting scheme that differs from that used during the previous election requires approval of a supermajority of the GB. In the event of a tie, a runoff election will be held to choose among the candidates with the same ranking.

6.3 Governing Board

The 18 GB Members drawn from the Senior Members of the Collaboration are elected to two-year terms. All Senior Members may run for these positions. The one GB Member drawn from the Postdoctoral Members of the Collaboration is elected for a one-year term. Prior to each election, the current GB will define various representation requirements that it deems important to include on the GB (possibly including, e.g., tenure-track and early

career scientists, historically underrepresented groups, members from partner countries with significant membership, members of small institutions, representatives of existing CMB programs, etc.); no more than 50% of the open seats on the board in an election can be reserved for such requirements.

The election for the Senior Members on the GB proceeds as follows. Prior to the election, Voting Members are asked to nominate individuals for the GB to the EVC. Self-nominations are accepted. After a nomination period, the EVC consults with the nominees to ascertain their willingness to stand for the election. A ranked voting scheme approved by the GB prior to the election is used for the GB election. Adoption of a ranked voting scheme that differs from that used during the previous election requires approval of a supermajority of the GB. The EVC will synthesize the voting results to provide a ranked list of all the candidates to the GB.

Half of the open seats (or the closest number greater than 50% of the total in the case of an odd number of vacancies) are automatically filled by the top-ranked candidates. If the representation requirements outlined above are unfulfilled by the elected candidates, the remaining open seats will be filled by the ranked-order voting results list until seats are needed to ensure representation requirements are met. At this point, the first rank-ordered candidate who meets one of the remaining unfulfilled requirements is selected. The process will be repeated until all seats are filled. In the case where a candidate withdraws after the election process has begun, the candidate will be ignored in counting ballots, and votes will move to the next choice on the ballot. Continuing GB Members (those whose seats are not open) will adjudicate any election issues, in consultation with the EVC.

The election for the Postdoctoral Member of the GB follows the same procedure, with the exception that only Postdoctoral Members are eligible to both nominate and vote for candidates for this position.

If a GB Member, including a Postdoctoral Member, resigns or is removed outside of the elections period and more than six months before the end of the Member's term, a special election will be held to fill the seat for the remainder of the Member's term.

6.4 All Other Elected Positions

For other elected Collaboration roles, the EVC is charged with establishing election rules and conducting these elections. Note that the EVC cannot make voting requirements more restrictive than those for the main body elections. Terms of elected positions are limited to durations of at most two years.

7 Councils and Committees

Four of the organizational structures overseen by the Spokespersons have representatives on the Executive Team as described in §5. These are the Science Council, the Technical Council, the Membership Committee and the Publications and Speakers Committee. Their composition and charges are described in this section. Three other standing committees for the Collaboration are also described below.

7.1 Science Council and Analysis Working Groups

The Science Council works closely with the Spokespersons to coordinate the key scientific objectives of the Collaboration. The Science Council is led by two co-Chairs elected by the Voting Members of the Collaboration, who also serve as Members of the Executive Team. The Science Council chairs serve two-year terms and are limited to two consecutive terms with one year off required before standing again. The remaining members of the Science Council are the co-coordinators of the various Analysis Working Groups. These Working Groups are open to all Collaboration Members, and will be formally established by the Spokespersons.

The Science Council approves the projects that lead to publications and is responsible for maintaining a list of Key Science topics (§9.3). It is charged to work closely with the Spokespersons and the ET to produce a coherent plan for advancing the key science goals of the Collaboration and to work towards the successful execution of this plan.

Each Analysis Working Group will have two co-coordinators who serve for two-year terms with the exception of one initial coordinator who will serve for a three-year term to enable staggered appointments in the future. The Science Council Chairs will solicit self-nominations for these co-coordinator positions. The Spokespersons will appoint coordinators with the advice of the Science Council Chairs, and will consider the distribution of early and late career Members when making these appointments. Coordinators will ordinarily not serve back-to-back terms.

7.2 Technical Council and Technical Working Group

The Technical Council works closely with the Spokespersons to coordinate the technical aspects needed to meet the scientific objectives of the Collaboration. The Technical Council is led by two co-Chairs appointed by the Spokespersons. The two Chairs serve as Members of the Executive Team. The co-coordinators of the various Technical Working

Groups are all members of the TC. These Working Groups are open to all Collaboration Members, and will be formally established by the Spokespersons.

Each Technical Working Group will have two co-coordinators who serve for two-year terms with the exception of one initial coordinator who will serve for a three-year term to enable staggered appointments in the future, as needed. The Technical Council Chairs will solicit self-nominations for these co-coordinator positions. The Spokespersons will appoint coordinators with the advice of the Technical Council Chairs, and will consider the distribution of early and late career Members when making these appointments.

It is anticipated that the role of and/or the need for the Technical Council will be readdressed in these Bylaws when the CMB-S4 Project is established.

7.3 Membership Committee

The Membership Committee (MC) consists of seven people including a Chair. The Chair is elected following the election cycle of the Collaboration with two-year terms, and is limited to two consecutive terms with one year off required before standing again. The six remaining members are appointed by the Spokespersons after consultation with the ET and subject to approval of the GB. These members have the same term duration and limits as the elected Chair. If a MC member leaves before their term is complete, the Spokespersons will appoint a replacement to complete their term, subject to approval of the GB. MC members can be removed by a supermajority of the GB at any time.

The appointed members of the MC should represent the overall Collaboration, and there should be at least two members from the Technical Working Groups and two members from the Analysis Working Groups on the MC. This balance may be amended as the scientific needs of the Collaboration evolve.

The duties of the MC are to review and evaluate membership applications, review annual activity reports, and recommend changes in membership status. The MC maintains an up-to-date list of all Collaboration Members, available on a public website. The MC in consultation with the ET works with applicants and continuing Members to identify roles and infrastructure tasks that add value, avoid redundancy, and make the Collaboration as efficient as possible.

7.4 Publication and Speakers Committee

The Publication and Speakers Committee (PSC) consists of thirteen people including the Chair. The Chair is elected following the election cycle of the Collaboration with

two-year terms, and is limited to two consecutive terms with one year off required before standing again. There are two subcommittees which together comprise the PSC: the Publications Board with eight Collaboration Members and the Speakers Bureau with four Collaboration Members. The Chair of the PSC chairs both subcommittees. The twelve non-elected committee members are appointed by the Spokespersons after consultation with the ET and subject to approval of the GB. The twelve appointed members serve with the same term duration and limits as the Chair. Roughly half of each group should be pre-tenure or the equivalent junior status for non-professorial positions. If a PSC member leaves before their term is complete, the Spokespersons will appoint a replacement to complete their term, subject to approval of the GB. PSC members can be removed by a supermajority of the GB at any time.

7.5 Junior Scientist Advancement Committee

The role of the Junior Scientist Advancement Committee (JSAC) is to ensure that junior members (defined as Student Members and Postdoctoral Members; see §8.1) within the Collaboration are represented, assisted, and supported throughout the tenure of the Collaboration. This will include arranging mentors for junior members who desire mentorship, and facilitating junior member career advancement through relevant workshops and other activities. The JSAC Chair and Vice Chair are appointed by the Spokespersons after consultation with the ET and subject to approval of the GB. The Chair and Vice Chair serve two-year terms that parallel the Collaboration election cycle. Membership on the JSAC is open to volunteers from the Collaboration, with the approval of the JSAC Chair.

7.6 External Collaborators Committee

The role of the External Collaborators Committee (ECC) is to provide the necessary link to external follow-up observations or survey data that required to maximize the science return from CMB-S4. The ECC Chair and Vice Chair are appointed by the Spokespersons after consultation with the ET and subject to approval of the GB. The Chair and Vice Chair serve two-year terms that parallel the Collaboration election cycle. The Chair will appoint additional members as required to ensure adequate knowledge of the collaborations being pursued resides in the ECC. Self nominations for consideration for membership on the ECC are expected.

The committee drafts the necessary documents for external collaboration agreements

and memoranda of understanding (MOUs). These are presented to the Spokespersons and the ET who have the authority to amend and alter the agreements and MOUs. The agreements are brought forward by the Spokespersons to the GB for final approval.

7.7 Education and Outreach Committee

The Education and Public Outreach (EPO) Committee is responsible for initiating, overseeing, and recording the Collaboration's efforts in the areas of public outreach and education. Its mission is to disseminate Collaboration results to the public and increase general scientific literacy. The committee is overseen by the Executive Team and members are appointed by the Spokespersons after solicitation of nominations from the full Collaboration and after consultation with the ET. The Chair is appointed by the Spokespersons after consultation with the ET. Terms on the EPO Committee are for two years, with some initial three-year terms to allow staggered appointments. A presentation of EPO efforts and written documentation of activities must be provided to the ET at each Collaboration meeting or when requested by the ET.

8 Membership Policy

The Collaboration consists of Ph.D. scientists, engineers, Ph.D. thesis students and others who contribute significantly to the CMB-S4 program. Membership conveys certain rights as described below, but comes with the obligation of an ongoing commitment of a substantial fraction of members' research time to the CMB-S4 program.

8.1 Membership Types

Five types of members are defined here.

- **Senior Member:** A Senior Member of the Collaboration is a member who has a permanent appointment or an appointment, that under normal circumstances can be expected to be renewed indefinitely. This includes tenure-track appointments at universities and their equivalents elsewhere.
- **Postdoctoral Member:** A postdoc working with a Senior Member at their institution can be designated as a Postdoctoral Member by that Senior Member.

Postdocs that are not working closely with a Senior Member (hereafter referred to as “Independent Postdocs”) can apply to become a Postdoctoral Member and have their application evaluated by the Membership Committee on a case-by-case basis.

- **Student Member:** A graduate student working with a Senior Member at their institution can be designated as a Student Member by that Senior Member. We do not anticipate granting membership to students who are not supervised by a Senior Member.
- **Provisional Member:** A Provisional Member has not yet been approved for Senior, Postdoctoral or Student Member status. This status applies to all new Student and Postdoctoral Members (including, for example, those in an existing Senior Member’s group) as well as potential Senior Members. This is intended to be a temporary status, typically a year, allowing the Provisional Member to demonstrate sufficient constructive engagement with the Collaboration.
- **Legacy Member:** A Legacy Member is a former member who contributed in a key manner to the Project or analysis infrastructure, but is no longer engaged with the Collaboration and is therefore no longer a member. This status is intended to convey authorship rights to such former members, and to bypass the normal membership procedures should they wish to re-engage with the Collaboration.

8.2 Membership Rights

Herein, “Members” refers to Senior, Postdoctoral, Student and Provisional Members (but not Legacy Members) unless otherwise qualified.

- Senior and Postdoctoral Members are Voting Members. Voting Members have the right to vote to ratify Bylaws and amendments to Bylaws, and vote in elections for Spokespersons, Governing Board representatives, and the elected positions including the Chairs of the Science Council, and the Membership and Publication and Speakers Committees.
- Members have full data access, including during the proprietary period for data that are eventually released.

- Members (including Legacy Members) have the right to be listed as a co-author on CMB-S4 publications as specified in the Publication Policy.
- Members have access to computational resources designated for CMB-S4, according to the policies of the relevant Computational Resources Working Group.

8.3 Membership Requirements

Members must commit effort to approved infrastructure tasks. The Membership Committee will work with the Executive Team to define and recommend infrastructure tasks that need filling, and to define and communicate with Members the level of expected effort. Tasks can include, for example, designing, building, and testing software, hardware, or simulations; contributing to commissioning and observations; and management tasks. Just as for the hardware, we anticipate having a collaboration-wide architecture for the software. Thus, Members are expected to comply with interface, documentation and code review requirements in support of the goals of the Collaboration. Other ways of contributing include taking on roles in the governance, including membership on the GB, EVC, ET, or the Councils and Committees described in §7.

8.4 Membership Application and Approval Process

After the Collaboration is formed with a first set of initial members (see §8.5), the process for membership to CMB-S4 will be as specified below.

- Potential Senior Members will apply for Provisional Membership via a written application where they specify their proposed work on CMB-S4. Applicants who have already made significant contributions to CMB-S4, either as a postdoctoral member or as a non-member, may be recommended for non-provisional (regular) Senior membership by the Membership Committee.
- Potential Independent Postdocs can apply for Postdoctoral Membership and have their applications reviewed on a case-by-case basis.
- Postdoctoral members can request intended senior membership status when applying to permanent positions by submitting a proposed research plan to the Membership Committee. If approved, they can request a letter from the Spokespersons describing their relationship to CMB-S4 to include in their application packages,

or to pass to their letter writers. Intended senior members who successfully transition to a permanent position are expected to communicate this to the Membership Committee and follow the normal application process for senior membership.

- Applications are reviewed by the Membership Committee. The Membership Committee recommends membership to the Governing Board. The Governing Board approves membership.

8.5 Initial Membership

The Collaboration will initially consist of members that were eligible to vote on these governance Bylaws (by virtue of attendance at two or more Collaboration meetings, or a successful petition for eligibility), and did cast a vote on them.

Within the first year of the Collaboration's establishment, prospective members can be granted membership by successfully petitioning the Membership Committee despite not satisfying the above criteria. The Membership Committee may approve such applications during the first year without action by the Governing Board.

8.6 Membership Review and Changes in Status

The membership status of each member will be reviewed by the Membership Committee each year.

- Each Senior Member and each Independent Postdoc will submit an annual activity report to the Membership Committee. Reports of the Senior Members should include discussion of the activities of their supervisees (e.g., postdocs and students) in their report. The Membership Committee will review those reports, consulting with Collaboration members and Working Group leaders as appropriate.
- Provisional Members will submit an annual activity report to the Membership Committee, which will review the report and determine whether the Provisional Member should be promoted to a Senior Member status, continue as a Provisional Member, or have their membership revoked. Provisional Membership is intended to be a temporary status.
- Members leaving the Collaboration may be granted Legacy Membership upon review by the Membership Committee and approval by the GB.

- The Governing Board has the authority to grant or terminate all forms of membership.
- If the effort of any Member appears insufficient, the Membership Committee will consult with the Spokespersons to develop a plan to remedy the situation. If needed, the Spokespersons will work with the Membership Committee to prepare a recommendation to the GB for corrective action, including suspension or termination of membership. This can also be done should the Membership Committee deem the actions of a Member to have been egregious and detrimental to the Collaboration.
- When a person’s membership in the Collaboration ends, they will no longer have access to the CMB-S4 document and database repository, internal forums, computing resources and data. Authorship rights will continue, or not, as prescribed in the Publication Policy bylaws.

9 Publication and Speakers Policy

9.1 Principles

This policy seeks to ensure an equitable distribution of credit for work in the CMB-S4 Collaboration, to encourage and incentivize active work by Collaboration members, and to guarantee that the resulting publications are of high quality. The authorship policy of the American Physical Society (2002) states: *“Authorship should be limited to those who have made a significant contribution to the concept, design, execution or interpretation of the research study. All those who have made significant contributions should be offered the opportunity to be listed as authors.”*¹

The Publication Policy will apply to all projects and publications that employ Collaboration resources, including unreleased data, simulation codes and products, hardware and software engineering designs, and analysis pipelines. All Collaboration members agree to the publication policy upon joining, and to be bound by it for two years after leaving the Collaboration.

¹https://www.aps.org/policy/statements/02_2.cfm

9.2 Organization

The execution of the policy shall be overseen by the Publication and Speakers Committee and its subcommittees (§7.4). The Science Council (§7.1), with input from technical and project committees, has authority to approve projects that may lead to publications or other products. Also, in carrying out its duty to produce a coherent plan for advancing the Collaboration’s key science goals, the Science Council shall establish a slate of project categories and solicit the Working Groups for detailed proposals. This is done in consultation with the ET and in accordance with the Spokespersons’ yearly plan. The Spokespersons will help to navigate and resolve potential conflicts. The Membership Committee will keep track of active Collaboration members and Legacy Members for the purposes of establishing author lists for papers.

9.3 Project Proposal Process

Any Collaboration member may propose a Collaboration research project to an appropriate Analysis Working Group or Technical Working Group by contacting the working group coordinators. If no working group is appropriate, the proposal may go to the Science Council directly via the chairs. Such a project is work that is intended to result in a journal publication after a fixed term, or a small set of related publications or similar product. There are three categories for projects:

1. **Key Projects** represent the main science goals of the Collaboration (or forecasts for those main science goals), where the Collaboration must speak with a single voice.
2. **Science Data Projects** represent other science goals and use Collaboration science data.
3. **Technical Reports and Non-key-project Forecasts** are Collaboration-vetted projects that do not require Collaboration science data and are not forecasts for key-project science goals. They may lead to a publication or conference proceeding.

The Science Council will maintain the list of Key Science topics, to be established prior to any projects being initiated. Topics can be added to the Key Science paper list and reviewed in coordination with the Publication Board.

The Publication Board shall maintain the template for project submission. This project proposal document designates a project leader and team, and describes the

project, its estimated completion date, and final products. Projects led by thesis students will be given special consideration to protect them from competition within the Collaboration. Projects that require joint work with an external collaboration will require a memorandum of understanding set up by the External Collaborators Committee that specifies authorship and publication policies for that work. These should be as compatible as possible with the respective Collaboration policies. Provisional Members and individual external collaborators may be suggested as team members. The External Collaborators Committee must be consulted in the latter case, to determine if MOUs are required.

Work on Collaboration data should apply toward a Collaboration project: failure to submit a project at its initiation, or writing a paper on internal Collaboration data for submission when the data become public, will be considered a violation of the policy. The same general type of analysis on subsequent observing seasons or data releases will be considered separate projects.

Conference proceedings are subject to the same approval and review process as other works to ensure collaboration vetting. However, collaboration members may submit an abstract to the conference to give a talk (with the assent of the Working Group coordinators and subject to approval by the Speakers Bureau) before the required proposal for the written contribution to the conference proceedings is submitted to the Science Council. Approval of the talk does not confer automatic approval of the written contribution.

After discussion, resolution of conflicts, and consensus within the Working Group, the Working Group coordinators will submit the project to the Science Council with a project category recommendation as a Key Project, Science Data Project, or Technical Report/Non-key-project Forecast Project. At this time the Working Group coordinators will announce the proposal to the Collaboration for a two-week consideration period, for discussion and further resolution of conflicts. Addressing overlap among projects may require revision of the proposed project, and will be negotiated by the Working Group coordinators, publication-project leaders, and Spokespersons. Any Collaboration Members that wish to make defined and useful contributions to the project are welcome to join the team. Disputes will be settled by the Working Group coordinators and Spokespersons as needed.

The Science Council may then approve the project or send it back to the Working Group for further revision. In the event of a tie vote in the Science Council, the project is sent back. When approved, the Publication Board will record the proposal in its project database, including its project category. If there is any substantial change in the scope of a project as it matures, the Project Leader should adjust the project description ac-

cordingly, which will result in a new announcement and opportunity for Collaboration review. After the definition of a project, its category can be reclassified only by unanimous written agreement of the project team and a supermajority vote of the Publication Board, or by a supermajority vote of the GB.

Project teams have the responsibility to carry projects to completion and publication. The Publication Board will query the Working Group coordinators twice yearly for progress reports on all projects, and forward the results to the Science Council. These reports are due by February 1 and August 1. Any projects without progress for one year will be noted as “inactive” and will be dropped from the database if there is still no progress at the next review.

9.4 Authorship

For the purposes of authorship, “Active Members” consist of Senior, Postdoctoral, and Student Members of the Collaboration as defined in §8.1. Provisional Members and external collaborators may appear as authors on papers when they are part of the project team.

1. For Key Project papers, all Active Members of the Collaboration and all Legacy Members will automatically be placed on the author list. The author list will start with “The CMB-S4 Collaboration” and otherwise be alphabetical, unless the Publication Board agrees that the paper should be submitted to a journal which requires the first author to be an individual. In that case, the author list will be alphabetical. The Membership Board will provide the current list of eligible Active and Legacy Members to the Publication Board. Anyone who chooses to opt out of authorship for a given Key Project paper must notify the Publication Board. For key papers initiated after July 1, 2020, the collaboration will provide a dedicated email address as the point of contact in lieu of a corresponding author. In rare circumstances, the Publication Board may approve an acknowledgment of authors who made exceptional contributions to the paper, based on recommendations from the project team, working group coordinators, and other members of the collaboration.
2. For Science Data Project papers, the author list will be two-tiered. Project teams may organize the first author tier as appropriate for the paper, and although not required, conventionally the tenured members of the project team will appear in the

second, alphabetical tier of authors. The second tier will consist of all active members and legacy members that choose to opt in online after an email notification. The final line of the author list will be “The CMB-S4 Collaboration.”

3. For technical reports and non-key-project forecasting papers, the author list will consist of the project team only, plus any Collaboration members that contributed to the study, as determined by the project team and appropriate Working Group coordinators, unless those authors opt out. The author list should be ordered according to the preference of the project team, followed by “for the CMB-S4 Collaboration.” For conference proceedings, the author list may be the single person who presented.

In rare cases, a Senior Member may recommend authorship for an undergraduate student, graduate student, engineer or technician who is not a Collaboration member. The Senior Member must petition the project team and the appropriate Working Group coordinators with a written description of the critical work done by the suggested author. Any disputes regarding authorship will be resolved by the Publication Board with the Spokespersons providing tie-breaking votes if necessary. If an eligible member is unable to opt in, due to an unforeseen circumstance, the Publication Board may add them to the author list.

9.5 Collaboration Review and Paper Submission Process

The project leader and the project team have the responsibility to draft the publication based on their research. All Collaboration papers will have a title following the template, “CMB-S4: *results of amazing research.*” These papers will be developed in coordination with the relevant Working Groups, and kept in a repository that is visible to the whole Collaboration. Any Collaboration member may comment on the project at any time. All CMB-S4 publications, including proceedings and theses, must include a standard acknowledgment, agreed to and updated by the Governing Board, and made available by the Publication Board. The Collaboration will pay the page charges for Key Project papers. For all other papers, the page charges are the responsibility of the authors.

When the paper matures to an advanced draft, the Working Group coordinators will request that the Publication Board form an internal review committee. This internal review committee consists of a primary and a secondary reviewer who have the responsibility to ensure that the Collaboration’s publications are of uniform and high quality. The reviewers are not current members of the Publication Board, but the Publication

Board assigns one of its members to oversee the review of the paper as a rapporteur. At least one of the reviewers or rapporteur should be a senior scientist who can insulate junior participants (whether authors, reviewers, or rapporteurs) from unfair criticism, if it occurs.

The Publication Board will notify the full Collaboration that the internal review committee has formed. Collaboration members may comment on the draft at any time, but when the authors are ready, the Publication Board will send an announcement of a formal three-week comment period. After this comment period, the reviewers will provide a written report on the paper to the authors and Publication Board.

All public comments, from Collaboration members and from reviewers, are to be posted to a centralized location maintained by the Publication Board, along with the authors' responses. All Collaboration members have access to these previously asked questions and responses.

The Working Group coordinators and rapporteur oversee iterations on the draft. When the reviewers, Working Group coordinators, and rapporteur are satisfied that comments have been appropriately addressed, they present the paper to the Publication Board, who gives final permission and sets the date for paper submission. The submission date is announced to the Collaboration with a notice for final reading.

In total, all projects/papers will have four formal public announcements to the Collaboration: (1) when proposed, (2) when the review committee forms, (3) when the formal comment period begins, and (4) when the call goes out for final reading before submission. Projects will also naturally be discussed in plenary teleconference calls, progress reviews, and Working Group reports.

For all papers submitted for publication to refereed journals, referee comments are to be posted to a centralized location maintained by the Publication Board, along with authors' responses. If revisions are needed, the Publication Board will determine whether or not the revisions are minor or major. In the case of major revisions, the revised paper will then be sent to the original internal review committee for review (in general no longer than three weeks). Once approved by the original internal review team, there will be a week-long collaboration-wide public comment period. After this period, the Publication Board will vote to approve the changes and resubmit, considering the recommendation from the original internal review team.

Any disputes regarding the review process will be resolved by the Publication Board with the Spokespersons providing tie-breaking votes if necessary. In the case of a time-sensitive discovery, the review period may be shortened by unanimous consent of the Publication Board.

Graduate thesis and dissertation documents are exempted from Collaboration review, but related publications (e.g. developed from an individual chapter) are subject to review.

9.6 Talks and Public Communications

The role of the Speakers Bureau is to help Collaboration members give more and better talks in support of the Collaboration. The Speakers Bureau also helps to ensure that talks get distributed among the Collaboration Members in a way that reflects the contributions of different members to the collaboration, the desire to promote junior members, and equity of opportunities to give talks. The duties of the Speakers Bureau are to:

- Maintain a list of relevant meetings, solicit invitations to conferences and identify good venues for contributed talks.
- Actively solicit speakers for invitations to notable conferences with no volunteer speakers. Priority and consideration should be given to the teams from projects where alphabetical author lists may obscure their roles.
- Promptly respond to requests for speakers from conference organizers and act as a point-of-contact for people who want some CMB-S4 speaker but do not have specific ideas. The mailing list is the most appropriate way to contact the Speakers Bureau.
- Serve as a clearinghouse for talk invitations forwarded from any member.
- Curate a library of standard plots and slides for speakers to use in talks.
- Maintain records of all presentation given in the name of the Collaboration and a library of past CMB-S4 talks.
- Address overlap from multiple requests to give talks on the same subject at the same conference, ideally by suggesting focus changes to make them on different topics. Talk prioritization should reflect the committee's best judgment, and should consider contributions to the topic in question, career status, whether the speaker was invited, and other similar factors.

Any Collaboration Member invited to give a talk with a substantial component focused on CMB-S4, (e.g., on the instrument, projections or science results) at a conference

or workshop must forward that request upon receipt and before acceptance to the Speakers Bureau's mailing list. The Speakers Bureau will work with the invited Member to determine whether the invited Member should reply positively to the request or with a suggestion of a more appropriate Member. In their deliberations, the Speakers Bureau and invited Member should consider the contributions of various members to the collaboration, the desire to promote junior members, and the fair distribution of opportunities to give talks. The Speakers Bureau should consult with appropriate Working Groups for feedback.

For approved conference and workshop talks, Collaboration Members must send abstracts and titles to the Speakers Bureau to allow them to be posted at least three days prior to submission, or as soon as possible in the event of last-minute invitations. For these talks, slides must be sent to the Speakers Bureau to allow them to be posted at least one week before being presented and should include "for the CMB-S4 Collaboration" on the title slide.

For talks that will lead to a written contribution to a conference proceedings, the abstract must additionally be approved by the appropriate working group coordinators. As noted in §9.3, the written contribution must be approved separately through the regular publication proposal and review process, but the speaker may submit the conference abstract before completing the required proposal for the written contribution.

For talks not in the above category, such as workshop or conference talks without a substantial component on CMB-S4, or colloquia or seminars, Collaboration Members should also notify the Speakers Bureau of the invitations. This ensures that the Speakers Bureau has a chance to address overlapping talk requests or locate another appropriate speaker in the case of declined invitations. The talks policy applies to all workshops, meetings, colloquia, public lectures, and seminars. The Speakers Bureau need not be informed of talks on other subjects that contain brief advertisements for CMB-S4 (e.g. a few slides with key parameter constraints) or of invited presentations that must remain confidential for programmatic reasons (e.g. certain agency reviews or presentations to private foundations or donors).

All talks must maintain confidentiality of the project's results. CMB-S4 results not approved for public release by the Science Council cannot be used in a presentation. To request approval for any such material, the speaker must submit the proposed slides to the Speakers Bureau at least one week in advance. Such results must be marked "CMB-S4 PRELIMINARY" on each slide. Results from any slide that has received Science Council approval can be re-used for other presentations without the need to have them re-approved.

9.7 Violations of the Policy and Remedies

Violations of the policy will be addressed by the Publication Board, which will forward violations and recommend a remedy to the Executive Team. Minor infractions will receive a warning, while repeated or severe infractions may warrant suspension from project teams or Working Group activities, removal from such groups, or expulsion from the Collaboration as determined by the Governing Board.

10 Ombudspersons

CMB-S4 has two Ombudspersons who are available to members of the Collaboration.² The role of the Ombudspersons is to provide informal, confidential, nonjudgmental, impartial, and independent advice and arrange mediation for CMB-S4 members for the purposes of dispute resolution. Confidentiality is a privilege of the Ombudspersons and the only circumstances in which there may be an exception to confidentiality is if the Ombudsperson is concerned by an imminent risk of serious harm, or is required by law in the applicable jurisdiction to anonymously report credible evidence of fraud, waste, or abuse concerning the use of government funds. As such, communications with an Ombudsperson do not constitute formal notice to the Collaboration or the individual's institute. If the individual would like to start formal proceedings, the Ombudsperson can provide guidance on the CMB-S4 process and referrals for institutional processes. The CMB-S4 process for formal complaints is to be outlined in a CMB-S4 Code of Conduct which will be drafted following the formation of the Collaboration. There are two CMB-S4 Ombudspersons to provide a choice of whom to speak with, and to ensure that there is at least one Ombudsperson available at Collaboration meetings. The Ombudspersons are available to CMB-S4 members who are experiencing conflicts or disputes as part of their CMB-S4 activities. The Ombudspersons will work together with the members who consult them to identify options for managing and resolving disputes and conflicts. This includes providing advice and support, referring individuals to appropriate resources, organizing informal mediation, and ensuring that the CMB-S4 Spokespersons are made aware of any systemic issues in the Collaboration.

The Ombudspersons serve two-year terms, with the option of renewal. Due consideration will be given to the diversity of the candidates when the Ombudspersons are selected.

²This section is drawn from the LSST DESC Code of Conduct which is licensed under Creative Commons CC0 1.0 <https://creativecommons.org/publicdomain/zero/1.0/>

The Ombudspersons will be full members of CMB-S4, with a strong understanding of the organizational structure of the Collaboration. They do not hold any other leadership positions within the Collaboration and report only to the ET. They must become members of the International Ombudsman Association (IOA) and familiarize themselves with the extensive materials available on their website. <https://www.ombudsassociation.org>

10.1 Role

The primary duties of an organizational ombudsperson are (1) to work with individuals and groups in an organization to explore and assist them in determining options to help resolve conflicts, problematic issues or concerns, and (2) to bring systemic concerns to the attention of the organization for resolution. An organizational ombudsperson operates in a manner to preserve the confidentiality of those seeking services, maintains a neutral/impartial position with respect to the concerns raised, works at an informal level of the organizational system, and is independent of formal organizational structures. Successfully fulfilling that primary function in a manner consistent with the IOA Standards of Practice requires a number of activities on the part of the ombudsperson while precluding others.

Activities and functions most frequently undertaken by the CMB-S4 Ombudsperson include, but are not limited to:

- Listening and understanding issues while remaining neutral with respect to the facts. The Ombudsperson does not listen to judge or to decide who is right or wrong. An ombudsperson listens to understand the issue from the perspective of the individual. This is a critical step in developing options for resolution.
- Assisting in reframing issues and developing and helping individuals evaluate options. This helps individuals identify the interests of various parties to the issues and helps focus efforts on potential options to meet those interests.
- Guiding or coaching individuals to deal directly with other parties, including the use of formal resolution resources of the organization. An ombudsperson often seeks to help individuals improve their skill and their confidence in giving voice to their concerns directly.
- Referring individuals to appropriate resolution resources. An ombudsperson may refer individuals to one or more formal organizational resources that can potentially resolve the issue.

- Assisting in surfacing issues to formal resolution channels. When an individual is unable or unwilling to surface a concern directly, an ombudsperson can assist by helping give voice to the concern and/or creating an awareness of the issue among appropriate decision-makers in the organization.
- Facilitating informal resolution processes. The Ombudsperson may help to resolve issues between parties through various types of informal mediation.
- Identifying new issues and opportunities for systemic change for the organization. The unique positioning of the ombudsperson serves to provide unfiltered information that can produce insight to issues and resolutions. The ombudsperson is a source of detection and early warning of new issues and a source of suggestions of systemic change to improve existing processes.

What an ombudsperson does not do: Because of the informal, neutral, confidential and independent positioning of an ombudsperson in an organization, they typically do not undertake the following roles or activities:

- Participate in formal investigations or play any role in a formal issue resolution process
- Serve in any other organizational role that would compromise the neutrality of the ombudsperson role
- Receive notice for the organization
- Make binding decisions or mandate policies
- Create or maintain records or reports for the organization
- Provide representation or legal advice

10.2 Selection

Ombudsperson candidates will be self-nominated. The Ombudspersons will be selected by the Spokespersons and ratified by the GB.

11 Amendments to Bylaws

These Bylaws may be amended by the GB. Amendments may be presented for consideration to the GB at one of its regularly scheduled meetings by one or both Spokespersons or any GB member. The GB classifies proposed amendments as minor (e.g., rewordings to clarify ambiguous text, editing to improve readability, or changes to capture operational details of elections, meetings, or appointments) or major (e.g. amendments pertaining to the scope and composition of the GB itself). The Spokespersons approve the initial classification and may reclassify minor amendments as major after the Collaboration review period described below.

The GB must maintain a tracking cover page with the Bylaws that notes the document version history, including dates of amendments with short synopses of which sections were impacted. Proposed amendments must be approved by a supermajority vote of the GB, and made available to the Collaboration for review and comment for at least one month. For minor amendments, the GB can ratify the revised Bylaws after the review period with a supermajority vote. Major amendments to the Bylaws must be ratified by the Collaboration. After the review period, the Voting Members of the Collaboration can ratify the amended Bylaws with a majority vote.

Appendices

A Abbreviations

CMB	Cosmic Microwave Background
Collaboration	CMB-S4 Science Collaboration
DOE	Department of Energy
ECC	External Collaborators Committee
EVC	Election and Voting Commission
ET	Executive Team
GB	Governing Board
ICCC	Interim Collaboration Coordination Committee
IEVC	Interim Election and Voting Commission
IOA	International Ombudsman Association
MC	Membership Committee
NSF	National Science Foundation
PSC	Publication and Speakers Committee
Project	CMB-S4 Construction Project
WG	Working Group