

# POLARBEAR Authorship Policy

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## Paper type/authorship matrix

	<p><b>Technical development papers:</b> first authors or first author groups followed by a limited author list.</p> <p>These papers are technical papers that focus on the development, testing or performance of a sub-system of the experiment. All of the following must be true for this type of paper:</p> <ul style="list-style-type: none"> <li>• No new cosmological results are described. A summary or introductory plot that shows previously published cosmological data may be appropriate.</li> <li>• No detector data from the POLARBEAR instrument is used.</li> </ul> <p>In these papers, the speaker (if it is a conference proceeding) or</p>	<p><b>Instrument, calibration, and performance papers:</b> first authors or first author groups followed by a full collaboration author list.</p> <p>These are papers that use POLARBEAR data to address instrument performance or calibration issues, or lay out the collaboration's goals for the future. These papers can have first authors or a small group of first authors, who then must be followed by all the eligible authors in alphabetical order. All of the following must be true for this type of paper:</p> <ul style="list-style-type: none"> <li>• No new cosmological results are described. A summary or introductory plot that shows previously published cosmological data may be appropriate.</li> <li>• No astrophysical data is used to claim any new result, or result of the highest precision available, on any astrophysical or cosmological observable</li> </ul> <p>In these papers, the speaker (if it is a conference proceeding) or the person doing most of the writing is the primary author on the paper, and is listed first in the author list.</p>	<p><b>Astrophysics and cosmology papers:</b> Collaboration papers with alphabetical author lists.</p> <p>Collaboration papers are all papers that use POLARBEAR data or are about the POLARBEAR / Simons Array instruments that do not meet the definition of a technical development paper or an instrument, calibration, and performance paper.</p>
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	the person doing most of the writing is the primary author on the paper, and is listed first in the author list.		
<b>Examples</b> These are possible examples. The list is of course not meant to be all-inclusive, or to represent all types of papers that could be in the group.	<p>A paper describing the design and testing of multiplexing readout components, using only laboratory testing data</p> <p>A paper describing an analysis algorithm, that does not show or claim any results from implementing the algorithm on POLARBEAR data</p>	<p>A paper describing a detailed noise model for the bolometer noise as observed during POLARBEAR CMB observations</p> <p>A paper describing the instrument hardware, and evaluating its performance based on CMB, planet, and/or other observations</p> <p>A paper describing the polarization calibration of the instrument using Tau A and/or other calibrators</p> <p>A paper describing the hardware upgrades planned for next year at the POLARBEAR site.</p>	<p>A paper describing the measured CMB polarization power spectra, even if it is not the most precise measurement of that power spectrum available</p> <p>A paper describing the measured polarization properties of Tau A at 150 GHz that claims to be the most accurate or precise measurement available of some property of Tau A</p>
<b>Is a person an author?</b>	The primary author is responsible for compiling the author list and making the author list known at least four weeks before submission of the paper. If a collaboration member feels they should be an author, they should contact the primary author and the primary author's advisor and make the case that they should be on the author list. If this does not resolve the issue, then the collaboration member who still feels they should be on the author list should ask their	<p>Any person who contributed, other than an undergraduate student, is eligible for authorship on a collaboration paper if they have been a member of the collaboration for more than 3 months, intellectually contribute to collaboration-wide or sub-group discussions about design or implementation in instrumentation or analysis, and any of the following are true:</p> <ul style="list-style-type: none"> <li>• They made significant contributions to the design, construction, and deployment of an instrument (receiver or telescope) that was used to collect data for the paper, and was deployed in the past 5 years.</li> <li>• They deployed to work on the instrument or take a shift as an observer sometime in the past year.</li> <li>• They worked on software or hardware for the instrument used in the paper in question sometime in the past year.</li> <li>• They developed analysis tools used in the paper in question sometime in the past year.</li> <li>• They regularly intellectually engaged in analysis or instrument discussions in</li> </ul>	

	<p>advisor to present the issue to the POLARBEAR Management.</p> <p>Authors must all positively approve themselves as authors through a document approval process.</p>	<p>the past year</p> <p>The policy for undergraduate students is different because undergraduate students usually have significantly less time to devote to research. An undergraduate student is eligible for authorship if their advisor suggests it and they worked on the instrument used in the paper, or analysis used in the paper, for at least either of the following:</p> <ul style="list-style-type: none"> <li>• One summer or more, working 20 hours/week or more</li> <li>• One academic year or more, working 10 hours/week or more</li> </ul> <p>Authors must all positively approve themselves as authors through a document approval process.</p>	
<p><b>In what order are the authors listed?</b></p>	<p>The primary author is the first author, and is responsible for defining the order in which the other authors are listed. It is standard for there to be zero, one, or two other authors listed at the front of the list, and then to switch to an alphabetical list of names of people who contributed to the work.</p>	<p>The primary author is listed first, followed by zero, one or two other contributors that the primary author feels contributed substantially to the work. The remaining authors are then listed alphabetically by last name.</p>	<p>Authors are listed alphabetically by last name, after the leading text "POLARBEAR Collaboration: ".</p>
<p><b>Corresponding author.</b> The corresponding author submits the paper to the arxiv and the journal.</p>	<p>The primary author is also the corresponding author.</p>		<p>The corresponding author(s) on Collaboration papers is chosen by the POLARBEAR Management. Advisors are responsible for nominating and lobbying for specific people to the POLARBEAR Management. Corresponding authors must be defined at least one month before submission of the publication. In the case of two corresponding authors, the managers will decide who submits the paper to the arxiv.</p>

## **Authorship by people not part of the collaboration**

Some papers will involve people outside the POLARBEAR collaboration. This is appropriate for people who have contributed substantially to the specific paper in question. People included on such papers do not have the right to use POLARBEAR data for other purposes without discussing it with the POLARBEAR management, and cannot act as representatives of the POLARBEAR collaboration. When included in an author list, they are included alphabetically in collaboration papers and as the primary author sees fit in technical papers and instrument, calibration, and performance papers.

## **Dual-collaboration authorship**

Where an entire list of members from a separate collaboration will also be authors on a paper, the collaboration management from both collaborations will agree on an authorship policy, and define that policy at least one month before submission of the paper.

## **Definitions**

- **POLARBEAR Management:** This is the group of principal investigators from the collaborating POLARBEAR institutions that meet regularly to decide management issues.
- **POLARBEAR Collaboration:** the collaboration is a constantly changing list of people. It is defined twice/year by the collaboration principal investigators as defined in the POLARBEAR Collaboration Member Set policy.
- **Advisor:** Institutional PI/Leader who is the institutional advisor for an undergraduate or graduate student, or postdoctoral scholar.