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Setting requirements on out-of-band rejection for next-generation CMB experiments.

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Next-generation CMB experiments have very stringent constraints to achieve the required sensitivity to target polarization B-modes. In this work, we intend to set constraints on out-of-band rejection level and derive requirements on the telescope filtering scheme. We follow a global approach, taking into account the impact on detector noise, on thermal balance and on thermal stability. This work was applied to the LiteBIRD instrument design but the methodology is very general and this is what I will present.

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