

Future challenges and new approaches in astrophysics at mm-wavelengths

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The cosmic microwave background (CMB) has played a foundational role in the establishment of the standard model of cosmology. Driven by significant technological advances, future experiments endeavour to revolutionise our understanding of the infant universe via detection of primordial gravitational waves and neutrino properties through their role in structure formation. In this talk, I will introduce the key science goals of next-generation CMB experiments, present the flagship CMB experiments of this decade, including those with contributions from Sweden, and discuss how work at Stockholm University contributes to these efforts.

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