

PITT PACC Workshop: Non-Standard Cosmological Epochs and Expansion Histories

Contribution ID: 11

Type: **not specified**

Block IX: Primordial-Black-Hole Domination - Presentation

Saturday 7 September 2024 11:00 (30 minutes)

Co-Discussion Leaders: Barmak Shams Es Haghi

This block is focused on epochs of primordial-black-hole (PBH) domination and their potential consequences –including, for example, possible implications for dark-matter physics, gravitational-wave physics, and the generation of the baryon asymmetry of the universe. An early matter-dominated eras (EMDEs) can of course arise within the cosmological timeline when PBHs dominate. Since such eras will be the focus of a separate, dedicated block (Block II), the focus of this block will primarily be on other possible consequences of PBHs on the cosmological expansion history or on distinctive potential implications of PBH-dominated eras which are not realized in other EMDEs.

Presenter: SHAMS ES HAGHI, Barmak (University of Texas at Austin)