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Muon Collider Detector Studies

A Multi-Tev Muon Collider is currently being studied by the Muon Accelerator Project (MAP). Experiments at the Muon Collider will need to cope with intense backgrounds from decays of muon beams.

Physics and detector studies including full simulation of muon decay backgrounds are underway. We report on some of these studies utilizing the ILCroot detector simulation framework integrated with MARS simulation of background sources.

We also discuss possible detector strategies for coping with high background and radiation rates and we present the first physics analysis using the full simulation of the beam background.

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