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Hadronic Calorimetry in sPHENIX at RHIC Upgrade Project

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The RHIC physics programs will benefit from developments in hadronic calorimetry. Hadronic calorimetry serves to identify and characterize jets in p+p and A+A collisions and enables studies of the mechanisms of partonic energy dissipation in the medium at high densities and temperatures. The sPHENIX detector concept requires development of a hadronic calorimeter with fairly high sampling fraction.

The structure under study is a geometrically pointing longitudinally segmented calorimeter built of flat variable thickness absorber plates and constant thickness scintillating tiles forming azimuthal segments with finned structure. We will demonstrate the feasibility of building such a uniform and hermetic hadronic calorimeter and discuss concepts for light collection and readout.

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