

Lecture on SiW Ecal

- Introduction

Motivation for highly granular calorimeters in particular W and Si for Ecal

Design Guidelines

Signal Extraction (Detailed look into detector layer, example Physics Prototype)

- The Physics Prototype

- Calorimetry with the SiW Ecal

Testbeam results (Energy Resolution, Shower Profiles, Noise, Calibration, Noise...)

- “Lessons” from the Testbeams – Studies of the Si Wafers (Nice solid state physics)

- The EUDET Module

- Technological Challenges

Maybe more focused on mechanics, how much on electronics?

- First Construction Steps