

## High Rate Beam Telescope Based on CMS Pixels

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## Section 1

### Motivation

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### Requirements:

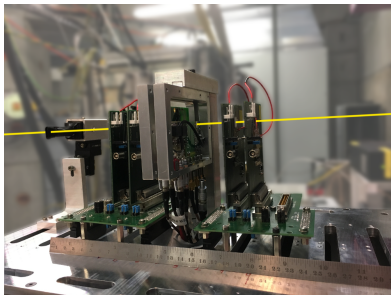
- small, modular and flexible beam telescope
- high rate continuous data taking
- precise trigger timing

## Section 2

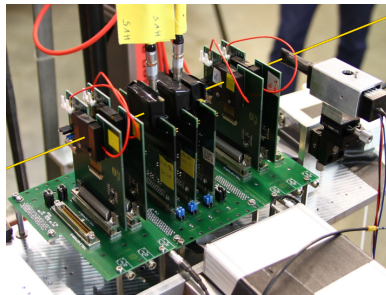
# Telescope Hardware



# Setups



(a) pad setup



(b) pixel setup

- pad setup: testing whole diamond as a single readout device
- pixel setup: testing diamond as sensor material on CMS-Pixel Chips