

The Supply Tubes (STs) host the Barrel Pixel (BPix) detector readout electronics, the cooling and power connections, and transmit control signals to the detector. All the electronic components have been throughly tested before and during the assembly of the four supply tubes. After the assembly, the data transmission in each sector is tested using a set of detector modules. Furthermore, the ST functionality is tested during and after 20 thermal cycles between 15 °C and -20°C before the final merging with the pixel detector.



online and offline to guarantee the best possible performance. The pixel Phase I detector will be the core of CMS until the year 2023, when a major upgrade for both LHC and the entire experiment is foreseen. During this year the detector has recorded 44 fb <sup>-1</sup> of data.

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BPix, Layer

BPix, Layer 2 BPix, Layer 3

Instantaneous Luminosity (×10

0.9

1.4 ×

Instantaneous Luminosity (×103