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Abstract: The LHCb SciFi upgrade relies on a new technology for particle detection, which consists from the attachment of small diameter scintillating fibers with SiPM photodetectors. Apart from the LHCb, this technology is of interest for other particle detection experiments and applications like medical imaging. The goal of the CBPF project is the development and characterization of a small X/Y 256 channel detector with a sensible area of $3 \times 3 \text{ cm}^2$ made of thin scintillating fibers and SiPM.