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TCPD, a TGEM Based Hybrid UV Photon Detector

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Micopattern technologies opened new horizons on gaseous photon detection. A well designed hybrid of a TGEM and an innovative multiwire structure can result in a RICH detector, operating in the UV regime, with the advantages of both technologies. Basic properties of the TCPD (ThickGEM+CCC Photon Detector) have been tested with beta and UV photon source, whereas its applicability as Cherenkov detector has been directly proven in particle beam tests. Simple construction relevant for large size detectors, high gain spark-free operaion, and natural MIP-signal suppression makes it competitive for RICH applications. The presentaion will focus on design, construction, and test beam results of this novel detector.

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