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GRB polarization with the POLAR detector.

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The POLAR detector will be launched together with the Tiangong 2 Chinese space station in the Summer of 2016 from Jiuquan Launch center. POLAR is a GRB polarimeter that will be able to measure GRB polarization degree with 10% precision for 10 GRB per year. POLAR detector has been build by a Chinese-Swiss-Polish collaboration. POLAR flight spare model has passed all qualification tests during 2014 and was tested and calibrated in a polarized beam facility in ESRF Grenoble. POLAR flight model has passed all acceptance level tests and was delivered to China in July 2015 for integration on Tiangong 2. GRB polarization measurements will help to validate or infirm the predictions of the different models of the GRB central engine. GRB polarization measurements are also interesting as probe of the quantum gravitation effects. POLAR can also be used to perform some Solar flare polarization measurements.

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