

## **DENSE COLD MATTER STUDY WITH SPECIAL TRIGGER AT TWA, NUCLOTRON, NICA AND FAIR. Project Status.**

New phase diagram sector at extremely large baryon density and low temperature is proposed for the laboratory study at TWA(IITEP),Nuclotron-M,MPD-NICA(JINR), CBM@SIS100(FAIR). High pt central rapidity double cumulative trigger for this study is proposed and tested experimentally at IITEP ion accelerator by FLINT collaboration.FLINT experiment is dedicated to the research program of dense cold matter search and study. Experimental data of two runs (2007 and 2010) are presented. Photons spectra were measured in CBe interaction at 3.2GeV/nucleon within angular region  $35^{\circ}$ – $70^{\circ}$  (l.s.). It is shown, that the measured photon spectra are indicating the domination of flucton-flucton interaction. Results of two runs are consistent with each other. Proposed measurements programs for future facilities MPD-NICA and CBM-FAIR(SIS100) are discussed.

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**Track Classification:** Experiments upgrade, future facilities and instrumentations