

## Status of miniBeBe proposal for MPD-NICA

*Wednesday, 16 December 2020 10:40 (0:25)*

### Content

The miniBeBe detector is designed to be a level 0 trigger for the TOF detector in the NICA-MPD. This detector needs to have a fast response to function correctly as a trigger, so it is important to implement it in the MPDRoot Framework and perform simulation studies. In this talk I discuss the capabilities of miniBeBe from the results of our simulations to be a level 0 trigger detector for TOF, beam-gas interaction veto and to locate the beam-beam interaction vertex. The results presented in this talk are reported in the CDR of miniBeBe (e-print: 2007.11790 [physics.ins-det] to appear in JINST).

### Area of contribution

Simulations

**Primary author(s) :** Mr. NIETO, Pedro A. (Universidad Autónoma de Sinaloa, Facultad de Ciencias Físico-Matemáticas)

**Presenter(s) :** Mr. NIETO, Pedro A. (Universidad Autónoma de Sinaloa, Facultad de Ciencias Físico-Matemáticas)

**Session Classification :** Joint Session: Mexico and Poland groups