

## Resistive plate chamber with B-10 for registration of thermal neutrons

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Resistive plate chamber detector's type has wide application in high energy physics because their time resolution and the availability of materials for their producing. The electrical signal is induced on the reading cuprum strips. The spatial resolution of the detector can reach hundreds of micrometers. These reasons prompted us to create a new type of thermal and cold neutron detector – a single-band resistive plate chamber with a 10B converter. A conceptual design of detector and first results will be presented in the report.

**Primary authors:** Mrs PETROVA, Maria (JINR); BODNARCHUK, Viktor (Frank Laboratory of Neutron Physics Joint Institute for Nuclear Research); MILKOV, Vasil (Mihaylov); Dr DAULBAEV, Olzhas (FLNP JINR); Dr BOGDZEL, Andrey (FLNP JINR); KURILKIN, Aleksey (JINR)

**Presenter:** Mrs PETROVA, Maria (JINR)

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