



Contribution ID: 55

Type: **Poster**

Oil-free bakelite Resistive Plate Chambers- A solution to several age old problems.

Thursday, 29 September 2022 14:50 (3 minutes)

Several experiments in High Energy Physics and Neutrino Physics use Resistive Plate Chambers (RPCs) made of bakelite electrodes for more than a couple of decades. There are several future experiments that may use bakelite RPCs. Most of these experiments use bakelite electrodes coated with polymerized linseed oil on their inner surfaces. It has been a common practice for ensuring the long-term stability of the RPC modules. However, oil-coated bakelite RPCs have several problems not only during developmental stages but also in their performances.

In the conference, how a noble idea of indigenous development of oil-free bakelite RPC has solved the problems associated with oil-coated RPCs, retaining the performance of these detectors will be presented. Also, the development of oil-free bakelite MRPC along with its performance will be discussed.

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Session Classification: Poster session