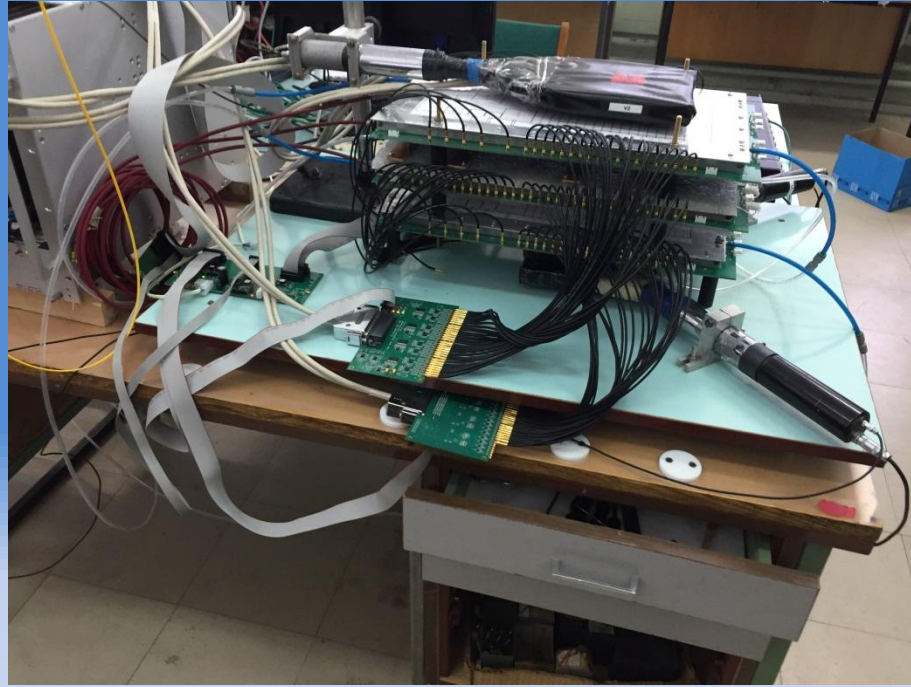


Status of RPC cosmic RUN

A.Semak & E.Ladygin

Test setup



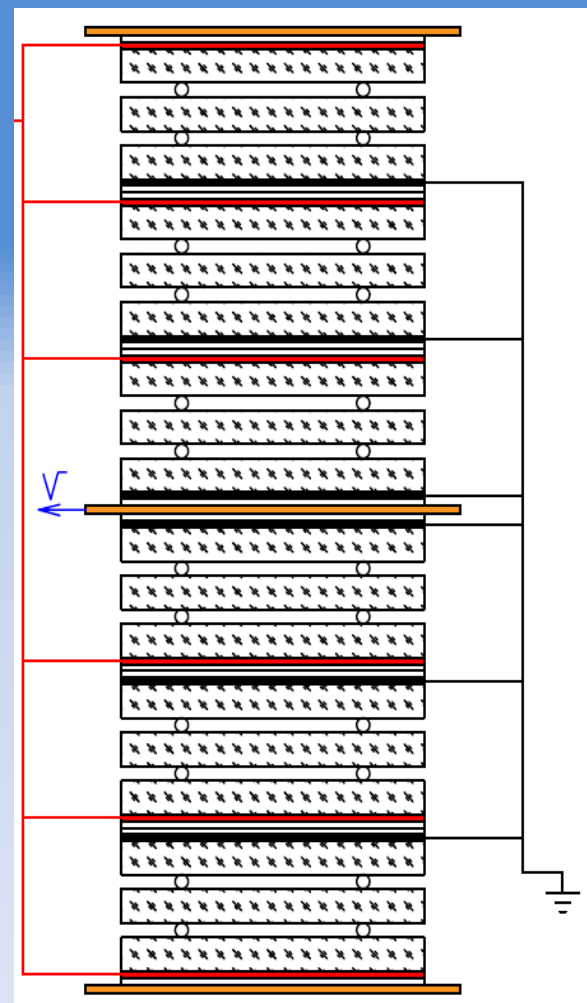
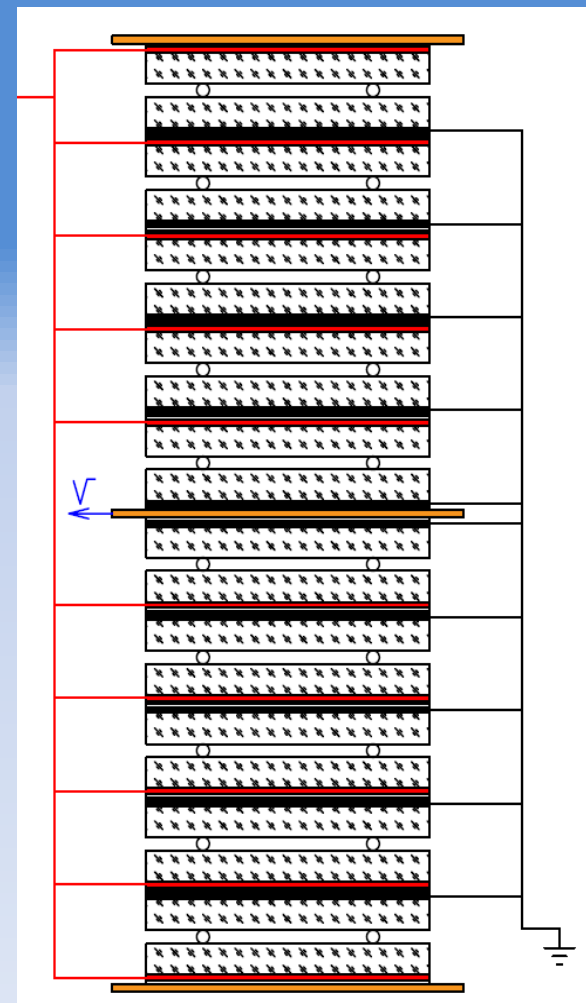
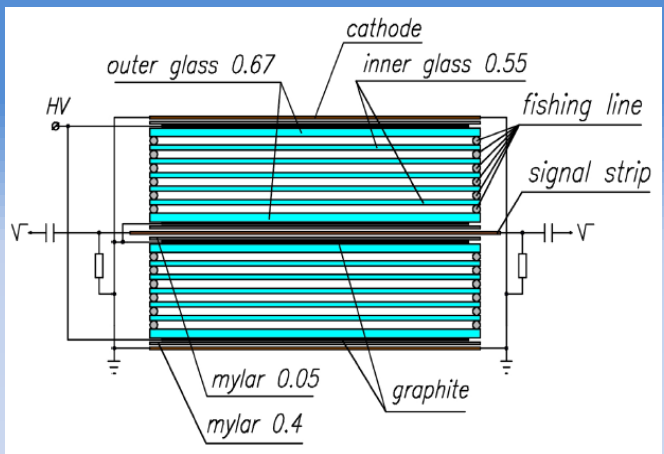
MRPC structure (all gaps - 0.22mm)

BM@N

2x6 gaps

10x1 gaps

6x2 gaps



Setup description

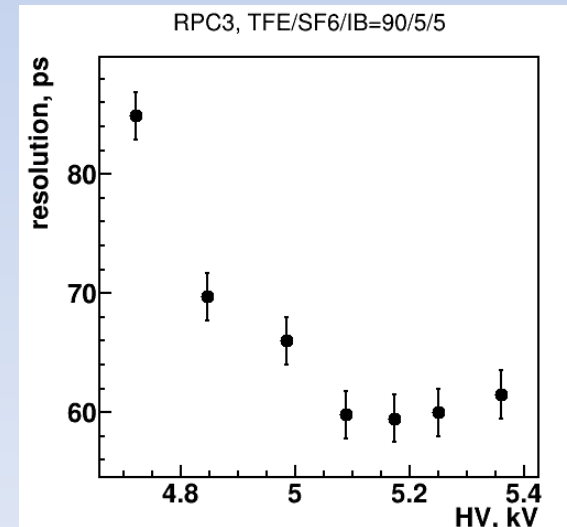
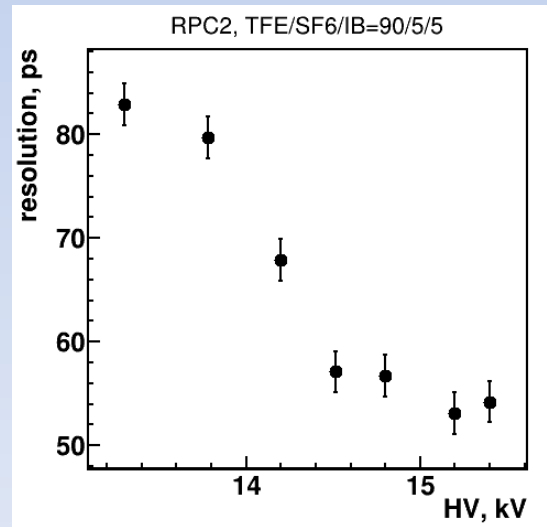
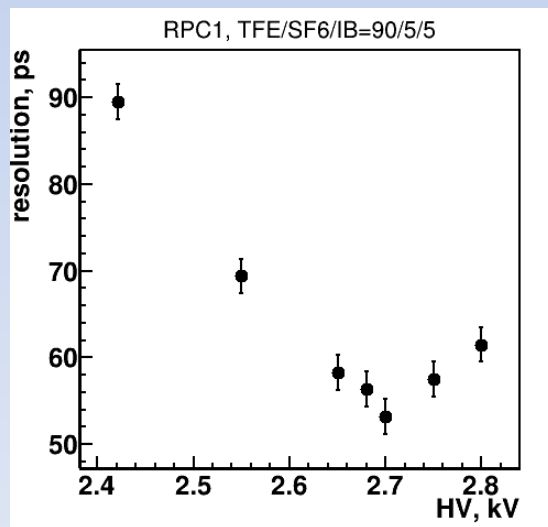
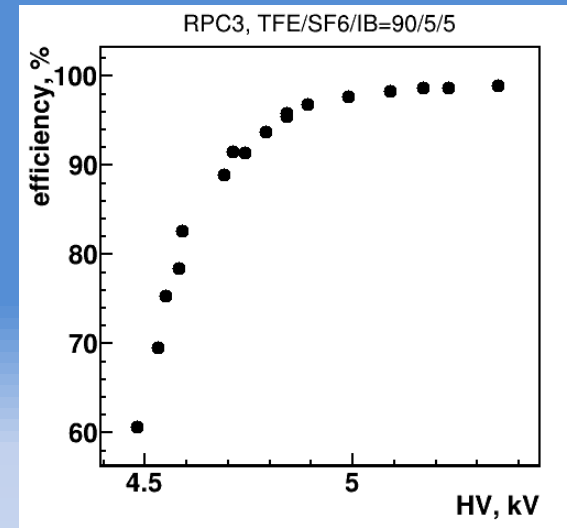
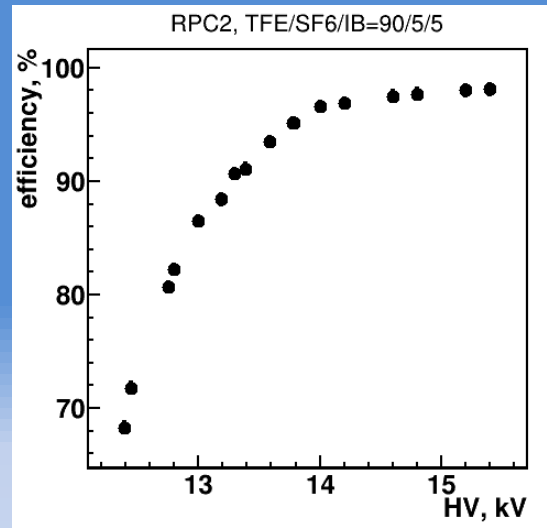
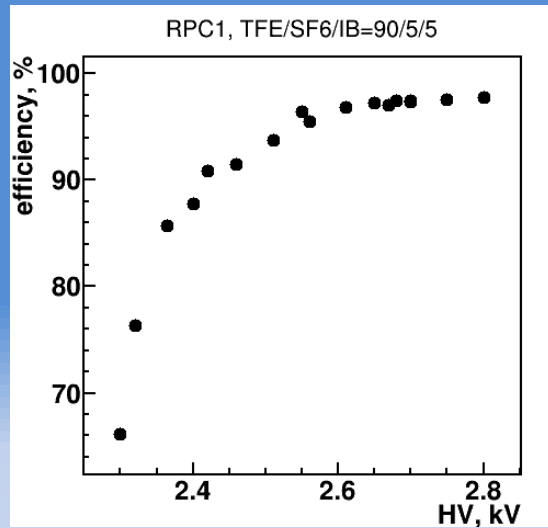
- Trigger system – 3 counters 160x160 mm²
- Trigger rate ~ 1 event/sec
- BM@N TOF front end electronics
- Readout based on TDC-64V (afi.jinr.ru)
- Gas mixture = TFE/SF6/IB (90%/5%/5%)
- We have used 16 strips in all MRPC's
- Strip size – 160x10 mm²

First results

10x1 gaps

BM@N

6x2 gaps



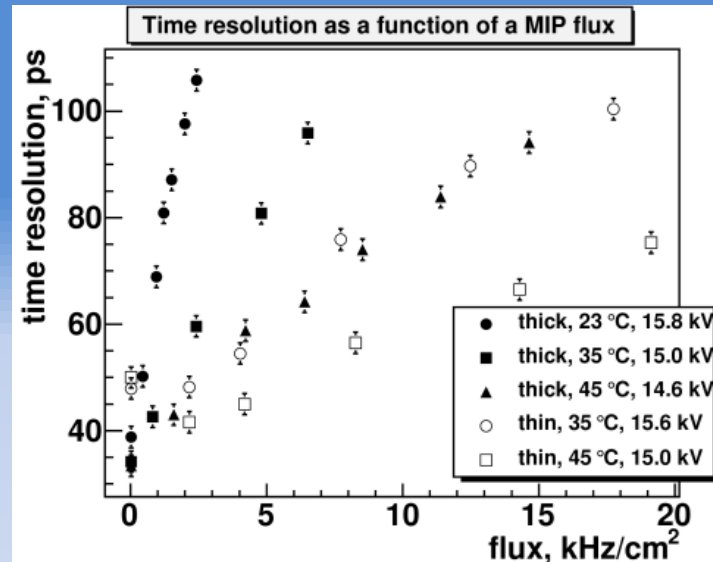
Plans

- Investigation of different Gas Mixture
- Investigation between Pad and Strip readout

Backup slide

- Препринт ИФВЭ 2012-7

ПРИБОРЫ И ТЕХНИКА ЭКСПЕРИМЕНТА, 2013, № 3, с. 21-26



- Временное разрешение 12 зазорной ячейки МРПК. Величина газового зазора 0.23 мм. Размер сигнального пада 1.9 x 1.9 см². Внешние размеры стекол 2.5 x 2.5 см².