

Efficiency

- ▼ plateau = 99%, WP = 7.18 kV, no hit bkg gamma rate, Eff(WP) = 98%
- ▲ plateau = 97%, WP = 7.24 kV, bkg rate (WP) = 0.3 kHz/cm², Eff(WP) = 96%
- ✚ plateau = 95%, WP = 7.23 kV, bkg rate (WP) = 0.8 kHz/cm², Eff(WP) = 94%
- plateau = 95%, WP = 7.24 kV, bkg rate (WP) = 1.0 kHz/cm², Eff(WP) = 94%
- plateau = 93%, WP = 7.25 kV, bkg rate (WP) = 2.0 kHz/cm², Eff(WP) = 92%

Standard gas mixture

Test Beam in April+July+August 2023

Before irradiation

1.4 mm double gap RPC

Threshold = 60 [fC]

0.6

0.4

0.2

0

 HV_{eff} [V]

6200

6400

6600

6800

7000

7200

7400

7600