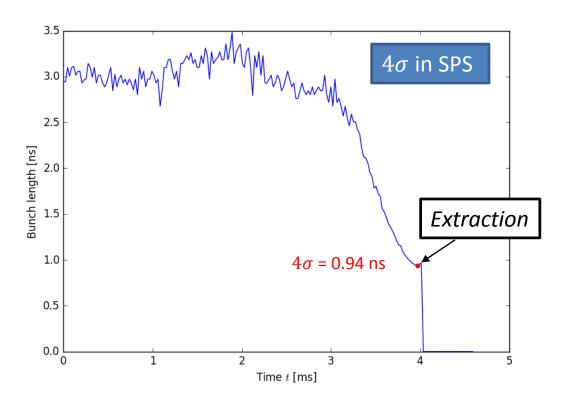
SPS beams

- BCMS up to 3 x 48 bunches: bunch intensity 1.1e+11, 1.5 um emittance
- Standard beam (scrubbing, HiRadMat); ~ 3 um emittance
 - Too large for HiRadMat experiments
- AWAKE: successful bunch rotation MDs: \sim 200 ps bunch length (1 σ)
- HiRadMat: screens at experiments do not give correct beam size for small beam sizes.

AWAKE bunch rotation

From Alex...



Fixed Target Beam

- Increased intensity: ~ 3e+13 at start of extraction
 - Nominal intensity for COMPASS
- Transmission ~ 91 %
- First SHiP MDs of 2017: extracted up to 1e+13 over 1 s.

