

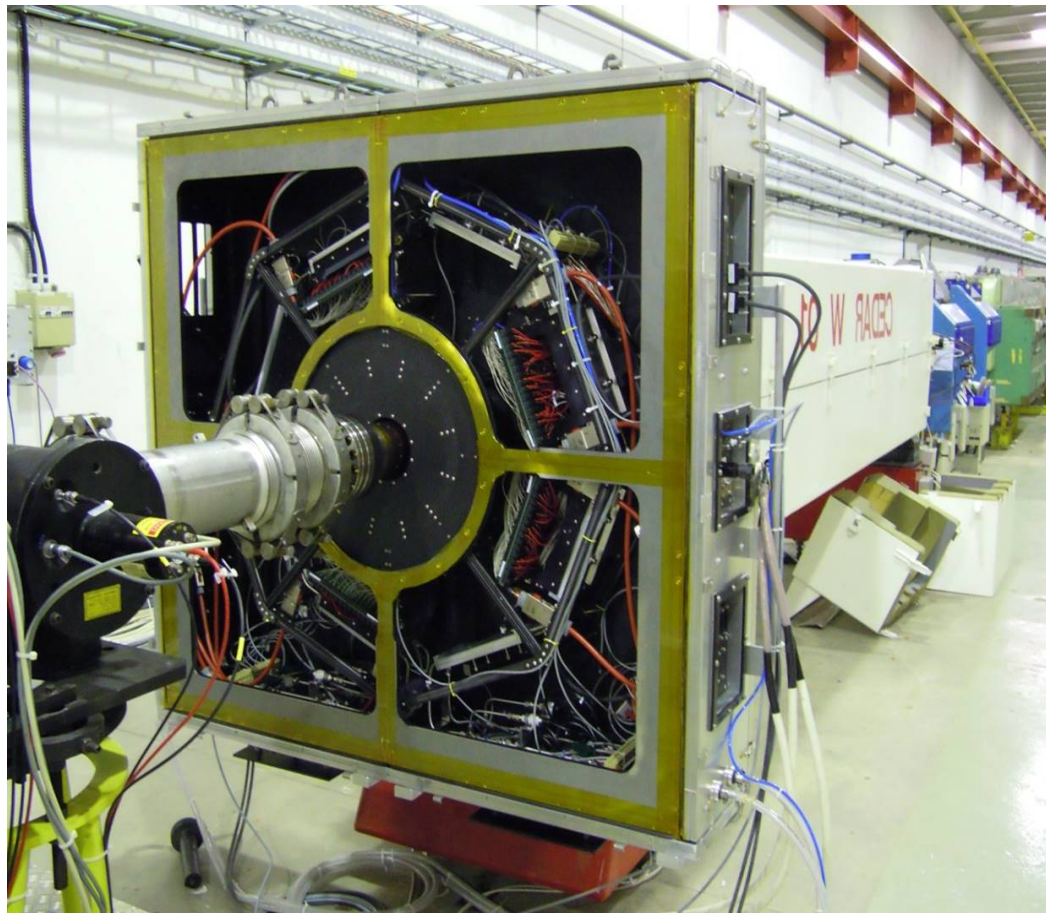
K^+ Identification in CERN experiment NA62

John Fry (Liverpool)

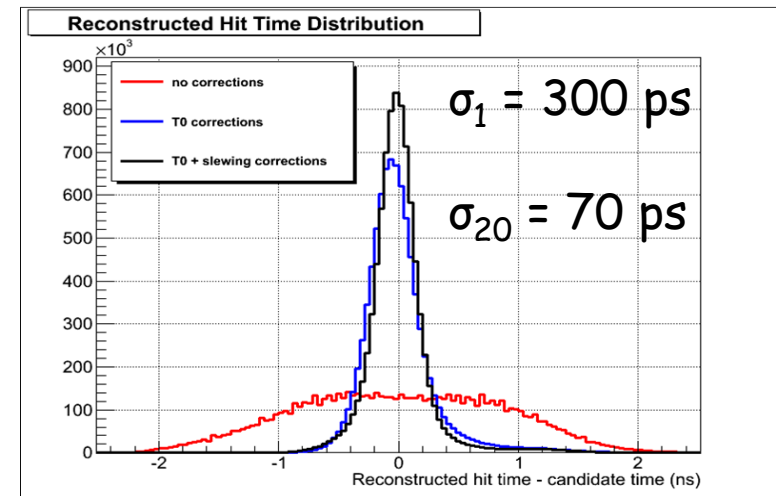
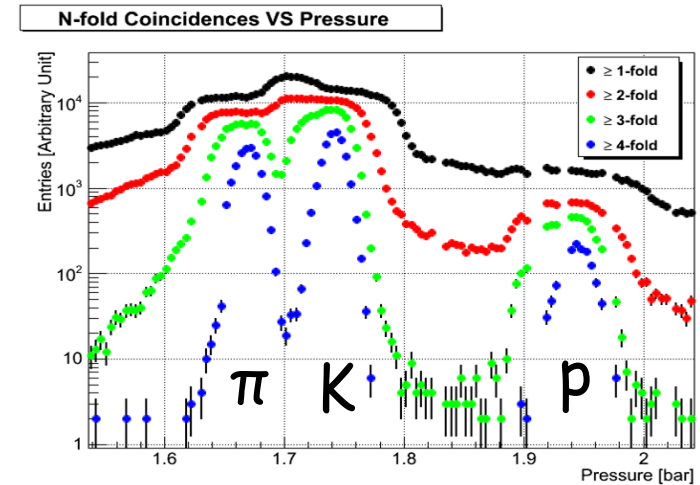
On behalf of the NA62 collaboration

K⁺ Identification in CERN experiment NA62

KTAG tags and timestamps the 6% K⁺ in the 800 MHz unseparated charged-particle beam. It detects K⁺ with >95% efficiency, has a time resolution of <100 ps, and particle misidentification of < 10⁻⁴.



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KTAG provides an essential contribution to NA62 physics

- Reduces accidental non-kaon background
- Defines offline timestamp for all sub-detectors

Preliminary: $m^2_{\text{miss}} = (P_K - P_\pi)^2$ [KTAG, STRAW, !MUV3]
shows no background in signal region II

$P < 35 \text{ GeV}/c$

