



4D Particle Tracking in the NA62 GigaTracker with Transformer-Based Architectures

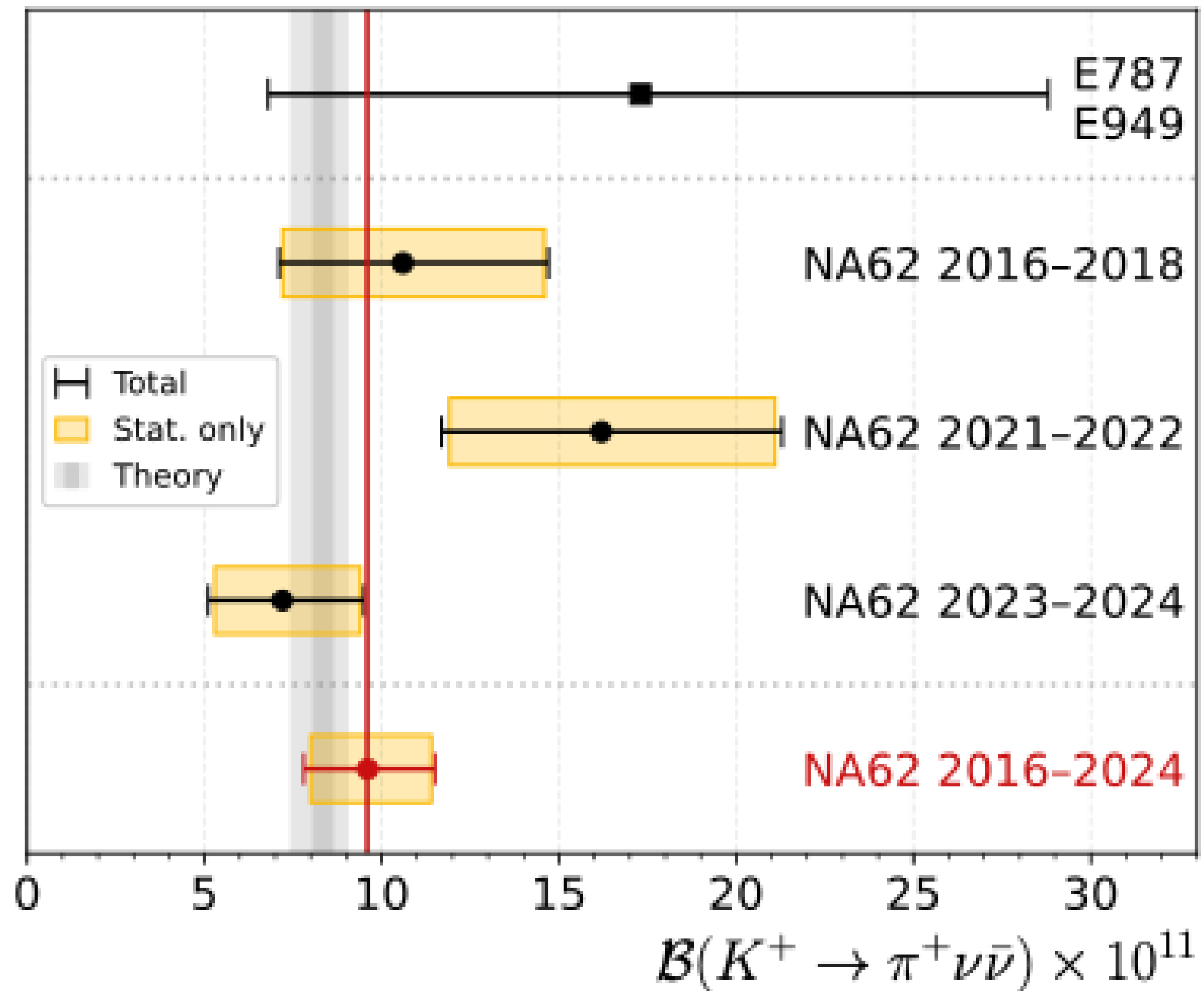
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Measurement of $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ at NA62

$$\mathcal{B}_{16-24}(K^+ \rightarrow \pi^+ \nu \bar{\nu}) = (9.6^{+1.9}_{-1.8}) \times 10^{-11} = (9.6 \text{ }^{+1.8}_{-1.6})_{stat} \text{ }^{+0.8}_{-0.6})_{syst} \times 10^{-11}$$



- Smallest measured branching ratio measured so far
- Branching ratio measured < 20% precision
- 2025- 2026 dataset still to be analyzed: we are expecting approximately x1.5 more signal events

[\[arXiv 2607.16413 \(2026\)\]](#)

