

STUDY OF THE  $\pi^+$  MESON ENERGY SPECTRUM BELOW 30 MeV IN THE DECAY  
 $K^+ \rightarrow \pi^+ + \pi^0 + \pi^0$

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Results are presented of an emulsion study of the low energy part of the  $\pi^+$  spectrum ( $1 \text{ MeV} < T_{\pi} < 30 \text{ MeV}$ ) resulting from 4639 decays of  $K^+$  mesons at rest. Contrary to the findings of Davison et al. this experiment shows no evidence for the existence of the  $\sigma(\pi^0\pi^0)$  resonant state, there being no lack of events at the lowest energies. The spectrum is analysed in terms of a standard polynomial development of the decay matrix element.