



# Interpretation of particle yields in pp interactions at $\sqrt{s} = 8.8, 12.3$ and $17.3$ GeV within statistical hadronization model

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Hadronization models are successfully describing the particle yields, particularly in high-energy nucleus-nucleus collisions [1]. They are also used to describe elementary processes, like pp interactions. Extensive measurements at  $\sqrt{s} = 17.3$  GeV by NA49 and NA61/SHINE collaborations provided yields of numerous particles, including double-strange hyperons.

Reasonable description of all experimentally measured yields (including the enfant terrible of these models, the  $\phi$  meson) was possible only when the canonical radius of volume containing strange particles was allowed to vary independently [2,3]. In this report, the extension of the hadronization model calculations within ThermalFist [4] using the new results obtained at lower energies by NA61/SHINE will be presented.

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3. K. Piasecki, T. Matulewicz, PoS (accepted), PANIC2021
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