

**Pion interferometry with Lévy-stable sources in
 $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions at STAR
(poster abstract)**

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Measurements of femtoscopic correlations in high-energy heavy-ion collisions aim to unravel the space-time structure of the particle-emitting source (the quark-gluon-plasma). Recent results indicate, that the pion pair-source exhibits a power-law behavior, and can be described well by a Lévy distribution. In this study, Lévy fits were performed to the measured one-dimensional two-pion correlation functions in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. The three extracted source parameters are the Lévy scale parameter, R , which relates to the size of the source, the correlation strength parameter, λ , and the Lévy exponent, α , which characterizes the power-law tail of the source. In this poster, we report the current status of the analysis of the extracted Lévy source parameters, and present their dependence on average transverse mass, m_T , and on centrality.