

# WPCF 2023 - XVI Workshop on Particle Correlations and Femtoscopy & IV Resonance Workshop 2023



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## Hidden puzzle of the correlation femtoscopy at the top RHIC and LHC energies and its possible solution

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We considered the two puzzle femtoscopic observations in ultrarelativistic heavy ion collisions. The first one is closeness of the observed maximal emission times of pions at the quite different collision energies: from top RHIC to top LHC energies. Another paradoxical effect is that despite the long enough duration of the post-hydro- dynamic/afterburner cascade stage, the observed times of the maximal emission are close to the particlization times. The detail analysis of the peculiarities of the system hydrodynamic evolutions at different energies of colliding nuclei and structure of the pion and kaon emission function at the afterburner stage shed light on these paradoxid results.

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