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Recent L3 results on BEC at LEP, improved description of the tau-model

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Bose-Einstein correlations of pairs of identical charged pions produced in hadronic Z decays are analyzed in terms of various parametrizations. A good description is achieved using a Levy stable distribution in conjunction with a hadronization model having highly correlated configuration and momentum space, the tau-model. Using these results, the time evolution of particle emission in two-jet events is reconstructed. Previous studies have found an elongated shape of the source along the event axis while tau-model prefers a spherical shape. Elongation is also found using the tau-model equations modified ad hoc to allow elongation. Hence new theoretical improvements of the tau model are needed.

Author: Dr NOVAK, Tamas (MTA RMKI KFKI - Budapest, KRF - Gyöngyös)

Presenter: Dr NOVAK, Tamas (MTA RMKI KFKI - Budapest, KRF - Gyöngyös)

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