Angular Correlations of High Momentum Photons at 158 AGeV

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Abstract

The WA98 experiment at CERN SPS examined p+A and Pb+Pb reactions at 158 AGeV. Azimuthal γ-γ correlations at high p_T were studied with the leadglass calorimeter LEDA in search for a signal of jet like structures. An influence of energy loss effects (jet-quenching) should be evident in a characteristic modification of the correlation. A clear indication for back to back correlations can be seen with strong dependence on the p_T of the photons. To point out the dependence on the size of the system the correlations at Pb+Pb collisions are compared to p+A collisions. A detailed comparison with event generators will be shown and the application of these methods to data analysis in PHENIX will also be discussed.

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