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## COHERENT AND CHAOTIC PRODUCTION OF HADRONS

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We give arguments in favour of a statistical approach to production processes similar to the one developed in quantum optics. In particular, we consider an example of pion production in nucleon-nucleon scattering. The "basic equation" for the pion fields is<sup>1)</sup>

$$(\square + \mu^2)\pi(x) = j(Y, \vec{B}; x) \quad ,$$

where  $j$  is a c-number random source,  $Y$  is the rapidity difference, and  $\vec{B}$  is the relative impact parameter of the two incident nucleons. Connection with a two-component picture and the Koba-Nielsen-Olesen scaling is indicated<sup>2)</sup>.

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