

SCALING NATURE
OF TARGET FRAGMENTS IN THE ^{28}Si -EMULSION
INTERACTION AT AN ENERGY OF 14.6A GeV

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S u m m a r y

An attempt has been made to study the fractal behavior of the experimental data on nuclear fragments obtained from ^{28}Si -Emulsion collisions at 14.6A GeV. The whole analysis is performed by using two different methods, namely the methods of scaled factorial moments (SFMs), F_q , and multifractal moments, G_q . We have found that the present data reflect a multifractal geometry for nuclear fragments along with the Monte Carlo events (simulated events). Finally, some evidences of non-thermal phase transitions and the scaling law nature of SFMs have been studied.