Multiplicity dependence of strange and multi-strange particle in jets in pp collisions at $\sqrt{s}=7$ TeV

4 authors

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5 Abstract

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7 1 Introduction

- 8 In heavy-ion collisions at ultra-relativistic energies, it is well established that a strongly coupled Quark-
- 9 Gluon-Plasma (QGP) is formed [1-5]. Recent measurements in high multiplicity pp, p-A and d-A
- collisions at different energies have revealed strong flow-like effects even in these small systems [6?
- -14]. The origin of these phenomena is debated in [??????].
- The multi-strange baryons, Ω (sss) and Ξ (dss), are particularly important in high energy particle and nu-
- clear physics due to their dominant strange quark (s-quark) content. The initial state colliding projectiles
 - contain no strange valence quark, therefore all particles with non-zero strangeness quantum number are
- created in the course of the collision.

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