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Ben McCarty* (benm@math.lsu.edu), Lockett Hall, Baton Rouge, LA 70803. *On the cube number of a knot.* Preliminary report.

We will highlight some of the differences between cube diagrams and grid diagrams, and explore the relationship between the arc index and the cube number of a knot. Furthermore, we'll introduce a possible link between cube number and link orientation. (Received March 30, 2010)