1067-35-2242    **Sharad D Silwal\*** (`sharad@math.ksu.edu`), Mathematics Department, 138 Cardwell Hall, Manhattan, KS 66506, **Sapto Indratno** (`sapto@math.ksu.edu`), Mathematics Department, 138 Cardwell Hall, Manhattan, KS 66506, and **Diego Maldonado** (`dmaldona@math.ksu.edu`), Mathematics Department, 138 Cardwell Hall, Manhattan, KS 66506. *The axiomatic approach to Harnack's inequality in doubling quasi-metric spaces.* Preliminary report.

We present an alternative approach to the abstract proof of Harnack's inequality in the setting of doubling quasi-metric spaces. This approach, mostly based on the theory of weights, sheds some new light onto the role of the so-called critical density property. This is joint work with Sapto Indratno and Diego Maldonado from KSU. (Received September 22, 2010)