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Henry Martyn Mulder* (hmmulder@few.eur.nl). *The Meta-Conjecture for median graphs.*

At first sight trees and hypercubes do not have much in common, except that K_1 and K_2 are both a tree as well as a hypercube. A closer look at these classes gives an interesting observation. There is a construction that works for both classes, which produces any tree from a smaller tree or any hypercube from a smaller hypercube (except for the smallest case K_1). This leads us to the class of all graphs produced by this construction from K_1 : the median graphs. This also suggests the following Meta-Conjecture (formulated first by HMM in 1990): “Any property shared by the trees and the hypercubes that makes sense is shared by all median graphs”. We present the details of this Meta-Conjecture, examples of the many theorems that have resulted from it, and some possibilities for future results. We also present generalizations and related results. (Received August 27, 2013)