



Math for the people, by the people.

Martin's axiom

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For any cardinal κ , *Martin's Axiom for κ* (MA_κ) states that if P is a partial order satisfying ccc then given any set of κ <http://planetmath.org/DenseInAPosetdense> subsets of P , there is a <http://planetmath.org/DirectedSetdirected> subset intersecting each such subset. *Martin's Axiom* states that MA_κ holds for every $\kappa < 2^{\aleph_0}$.