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Robert Grizzard* (rgrizzard@math.utexas.edu). *Relative Bogomolov extensions.*

A field K of algebraic numbers is said to satisfy the Bogomolov property if the absolute logarithmic height of non-torsion points of K^\times is bounded away from 0 (K “has no small points”). This can be generalized by defining a relative extension L/K to be Bogomolov if the height of points of $L^\times \setminus K^\times$ is bounded away from 0 (“ L has no new small points”). We’ll survey existing results on the Bogomolov property and give several non-trivial examples of relative Bogomolov extensions where the base field does not have the Bogomolov property. (Received September 08, 2013)