

HUGE REFLECTION

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ABSTRACT. Results of Bagaria and his collaborators show that a great variety of large cardinal notions, ranging from weakly inaccessible cardinals to *Vopěnka's Principle*, can be characterized through principles of *Structural Reflection* that generalize the *Downward Löwenheim–Skolem Theorem* to classes of models defined through external set-theoretic properties. In my talk, I want to present recent progress towards characterizing large cardinal notions beyond *Vopěnka's Principle* through natural structural reflection principles. I will introduce a simple reflection principle, called *Exact Structural Reflection*, and show that its validity implies the existence of various large cardinals in the region between almost huge cardinals and rank-into-rank embeddings.

This is joint work in progress with Joan Bagaria (Barcelona).

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