

## Logic Seminar

*Diamond, Scales and SCH Down to  $\aleph_{\omega^2}$*

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**Abstract:** Gitik and Rinot proved assuming the existence of a supercompact that it is consistent to have a strong limit cardinal  $\kappa$  such that  $2^\kappa = \kappa^+$ , there is a very good scale at  $\kappa$ , and diamond fails along some reflecting stationary subset of  $\kappa^+ \cap \text{cof}(\omega)$ . I will force over Gitik and Rinot's model but with a modification to Gitik-Sharon diagonal Prikry forcing to get this result for  $\kappa = \aleph_{\omega^2}$ .

Tuesday, September 12 at 4:00 PM in SEO 427