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Quantum SL_2 and logarithmic vertex operator algebras

The category of modules of rational vertex operator algebras are relatively well understood. The best understood family of nonrational vertex operator algebras are the so-called triplet algebras. Their category of modules have been conjectured to coincide with the representation category of small quantum SL_2 at a root of unity. My talk will review this conjecture, and explain its recent proof by Cris Negron and myself.