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## **Planckian metal and SYK physics at a quantum critical metal with spin 1/2 fermions.**

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I will present our recent results on a model of itinerant  $SU(2)$  electrons with random exchange. This model hosts a quantum critical point separating two distinct metallic phases as a function of doping: a Fermi liquid with a large Fermi surface volume and a low-doping phase with local moments ordering into a spin-glass. This quantum critical point has non-Fermi liquid properties characterized by T-linear Planckian behavior,  $\omega/T$  scaling and slow spin dynamics of the Sachdev-Ye-Kitaev (SYK) type.

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