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*Non-Edge-to-Edge Triangulations of the Sphere*

The tilings of the sphere with congruent spherical triangles meeting edge-to-edge were enumerated under certain assumptions by Sommerville in 1923, and completely by Davies in 1965. If we do not require the triangles to meet edge-to-edge, further tilings are possible. In this talk I will report (with plenty of pictures) on a probably-complete enumeration of spherical triangles that tile in such a fashion.