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In 2006, Barát and Thomassen conjectured that the edges of every planar 4-regular 4-edge-connected graph can be decomposed into claws. Shortly afterward, Lai constructed a counterexample to this conjecture. Using the small subgraph conditioning method of Robinson and Wormald, Luke Postle and I showed that a.a.s. a random 4-regular graph has an edge decomposition into claws. I will also discuss more recent results edge decomposing regular graphs into stars; this is joint work with Bernard Lidický and Luke Postle. (Received September 09, 2016)