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Coordinates for webs in surfaces and their application to SL3-representations of surface groups and their quantization

(Joint work with Charles Frohman.) The space of SL(3)-representations of a surface F group can be described in terms of 3-valent oriented graphs in F (called webs) in a similar way as the space of SL(2)-representations of  $\pi_1(F)$  is described in terms of multi-curves in F. In this talk, we construct coordinates for webs in punctured surfaces with ideal triangulations. As an application of this result we show that the SL(3)-skein algebra of a surface, quantizing its SL(3)-character variety, is finitely generated.