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Joshua R. Edge* (joshredge@gmail.com), Rawles Hall, 831 East 3rd St, Bloomington, IN 47405. *Simple virtual skein theories*. Preliminary report.

We give a skein theory classification of all quotients of the planar algebra of virtual tangles with n -box space dimensions $1, 0, 1, 0, k, \dots$, where $k \leq 3$. Most examples that appear are elementary but a few interesting examples arise, including the virtual Jones polynomial and most notably $\text{Rep}(O(2))$. (Received January 11, 2018)