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*Traces and "soft" ideals of  $B(H)$*

Work in progress with Gary Weiss.

The results of Dykema, Figiel, Weiss, and Wodzicki permit us to determine when an ideal of  $B(H)$  supports a trace (not necessarily positive or faithful). In this work we study "how many traces" (up to scalar multiples) an ideal can support: in all cases considered, either 0, 1 or uncountably many. Our main tool is the notion of soft interior and soft cover of an ideal and we also find that these form a pair of ideals that play a role in the study of classical ideals.