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New Ways to Probe Ultracold Fermions in Optical Lattices CHRISTIAN SANNER, RALF GOMMERS, AVIV KESHET, YONG-IL SHIN, EDWARD SU, WOLFGANG KETTERLE, MIT-HARVARD CENTER FOR ULTRACOLD ATOMS TEAM — We report on new in situ methods to probe fermions in optical lattices and we discuss aspects of preparing these systems.

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