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02715. *A classification of irreducible admissible groups in dimension three.* Preliminary report.

The initial constructions of continuous wavelet transforms relied primarily on the similitude group (uniform scaling and rigid motions). However, in the past few years, the focus has shifted towards more diverse choices of matrix groups. An irreducibly admissible matrix group is characterized by the property that its dual action has a single open orbit with associated compact stabilizer. In this presentation, we will give a full list up to conjugacy of these groups acting in dimension three. (Received January 15, 2016)