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Idempotent lifting and beyond.

The ability to lift idempotents modulo every one-sided ideal characterizes the important class of exchange rings. In such a ring idempotents not only lift, but they lift strongly. We investigate other forms of lifting in such rings and generally; including the ability to lift regular elements, isomorphic idempotents, and conjugate idempotents modulo an ideal. Interrelations between these concepts are clarified. (Received July 07, 2016)