

## HEAVY LIFTING

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We produce heavy lifting results in the setting of continuous quotients under the assumption of Shelah's Proper Forcing Axiom. After having showed a strong lifting theorem valid in the setting of reduced products of metric structures, we use this to confirm several rigidity conjectures of Coskey, Farah, Shelah for automorphisms and mutual embedding of corona  $C^*$ -algebras. In doing so, we show that several statements regarding the Calkin algebra are independent of ZFC.

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