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Elementary equivalence in positive logic via prime products.

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A generalization of ultraproducts called prime products will be introduced. While ultraproducts preserve sentences of first-order logic (\mathcal{L}_{ω_1}), prime products preserve sentences of positive logic in the sense of Poizat. The main result is an analogue of the Keisler-Shelah Theorem: two structures in the same language have the same positive theory if and only if some prime product of ultrapowers of one is isomorphic to some prime product of ultrapowers of the other.