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## INDEX COMPUTATION FOR AMALGAMATED PRODUCTS OF PRODUCT SYSTEMS

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ABSTRACT. The notion of amalgamation of product systems has been introduced in [?] which generalizes the concept of Skeide product, introduced by Skeide, of two product systems via a pair of normalized units. In this paper we show that amalgamation leads to a setup where a product system is generated by two subsystems and conversely whenever a product system is generated by two subsystems, it could be realized as an amalgamated product. We parameterize all contractive morphism from a Type I product system to another Type I product system and compute index of amalgamated product through contractive morphisms.

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