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# Connections between the resolutions of general two-level factorial designs

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**Abstract** Indicator functions are new tools for studying two-level fractional factorial designs. This article discusses some properties of indicator functions. Using indicator functions, we study the connection between general two-level factorial designs of generalized resolutions.

**Keywords** Indicator function · Fractional word length · Generalized resolution · Resolution  $III^*$  design · Extended word length pattern