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Further investigations of TRIBs in BESSY III design MBA lattices

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This paper is the follow-up of a previous one where we reported symmetry breaking as the main factor that establishes transverse resonance island buckets (TRIBs) close to a third-order random resonance in one of BESSY III design lattices by using a single knob. Here we present a more complete picture of the analytical framework and we show that there are two types of resonances close to which islands can be implemented. We give a brief overview of how this framework can be applied by using the BESSY III multibend-achromat (MBA) lattices as examples.

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Footnotes

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