



LOCALISED VARIANTS OF MULTILINEAR RESTRICTION

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Abstract: We revisit certain localised variants of the Bennett–Carbery–Tao multilinear restriction theorem, recently proved by Bejenaru. We give a new proof of Bejenaru’s theorem, relating the estimates to the theory of Keakeya–Brascamp–Lieb inequalities. Moreover, the new proof allows for a substantial generalisation, exploiting the full power of the Keakeya–Brascamp–Lieb theory.

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