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Author(s)	Maimaiti, Aili; Holzmann, Daniela; Truong, Viet Giang; Ritsch, Helmut; Nic Chormaic, Síle
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Nonlinear force dependence on optically bound micro-particle arrays in the evanescent fields of fundamental and higher order microfibre modes

Aili Maimaiti^{1,2}, Daniela Holzmann³, Viet Giang Truong¹, Helmut Ritsch³
& Síle Nic Chormaic*¹

¹Light-Matter Interactions Unit, Okinawa Institute of Science and Technology Graduate University, Onna, Okinawa 904-0495, Japan

²Physics Department, University College Cork, Cork, Ireland

³Institute for Theoretical Physics, University of Innsbruck, Technikerstrasse 25, A-6020, Innsbruck, Austria

*Correspondence to: sile.nicchormaic@oist.jp

Description for the supplementary movies:

Supplementary Movie S1. Propulsion of bounded three polystyrene particles in the evanescent fields of the fundamental mode (FM) of a 2 μm fibre. The power at the fibre waist is 30 mW.

Supplementary Movie S2. Propulsion of bounded four polystyrene particles in the evanescent fields of the fundamental mode (FM) of a 2 μm fibre. The power at the fibre waist is 30 mW.

Supplementary Movie S3. Propulsion of bounded three polystyrene particles in the evanescent fields of the higher order modes (HOMs) of a 2 μm fibre. The power at the fibre waist is 30 mW.

Supplementary Movie S4. Propulsion of bounded four polystyrene particles in the evanescent fields of the higher order modes (HOMs) of a 2 μm fibre. The power at the fibre waist is 30 mW.