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**Short title:** Momentum space trigonometric Rosen-Morse potential.

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**Primary classification:** 81Q35

**Secondary classification(s):** 33C55 42B10

**Review text:**

An integral (cf. Eq. (7)) is interpreted as a Fourier transform of the popular Rosen-Morse potential (given by Eq. (1) and interpreted as an angular function on  $S^3$ ) and evaluated in closed form (cf. Eq. (9)).