

Proof Without Words: The Sum of Squares

BIKASH CHAKRABORTY (D

In this proof without words, we prove wordlessly the identity $1^2 + 2^2 + \ldots + n^2 = \frac{n(n+1)(2n+1)}{6}$.

Department of Mathematics University of Kalyani Kalyani West Bengal 741235

India

Department of Mathematics

Ramakrishna Mission Vivekananda Centenary College

West Bengal 700118

India

e-mail: bikashchakraborty.math@yahoo.com; bikashchakrabortyy@gmail.com

REFERENCES

- [1] J. Barry Love, Proof without Words: Cubes and Squares, Mathematics Magazine, 50(1977), 2, 74.
- [2] Roger B. Nelsen, Proofs without Words: Exercise in Visual Thinking, The Mathematical Association of America, 1993.
- [3] Roger B. Nelsen, Proofs without Words II: More Exercise in Visual Thinking, The Mathematical Association of America, 2000.

