

Readers can proceed similarly for the $(0, 2, 0, 1, 6, 2)$ -residue set associated with $(11_3)_{11}$ and $(11_3)_{23}$, and the $(0, 2, 0, 3, 4, 2)$ -residue set associated with $(11_3)_{14}$, $(11_3)_{17}$, and $(11_3)_{25}$.

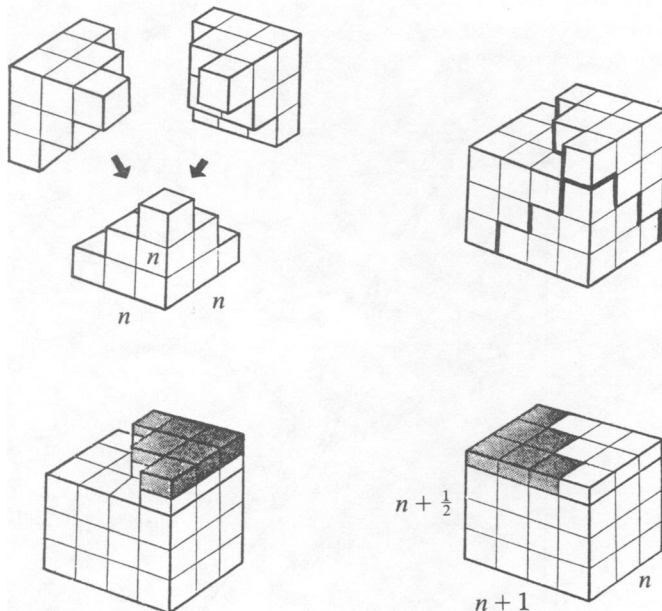
Although considerable attention has been given to n_3 -configurations for the cases where $n = 7, 8, 9, 10$ (see [1], [5], [7]), there appears to be no reference in the recent literature to work done on the 11_3 's about a century ago. Thus, our puzzle's focus on the case of $n = 11$ has the added benefit of summarizing and updating some important earlier results on the 11_3 's.

References

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- [2] H. L. Dorwart, *Configurations*, Autotelic Instructional Materials Publishers, New Haven, CT, 1968.
- [3] _____, *Geometry of Incidence*, Prentice-Hall, Englewood Cliffs, New Jersey, 1966. Reprinted as paperback by Autotelic Instructional Materials Publishers, New Haven, CT, 1973.
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- [5] D. Hilbert and S. Cohn-Vossen, *Geometry and the Imagination*, Springer, Berlin, 1932, and Chelsea, New York, 1952.
- [6] S. Kantor, Die configurationen $(3, 3)_{10}$, K. Academie der Wissenschaften, Vienna, Sitzungsberichte der mathematisch naturewissenschaftlichen classe, 84 II (1881) 1291–1314.
- [7] F. Levi, *Geometrische Konfigurationen*, Hirzel, Leipzig, 1929.
- [8] V. Martinetti, *Sulle configurazioni piane μ_3* , *Annali di Matematica*, XV (1887/8) 1–26.
- [9] R. Daublebsky von Sterneck, *Die configurationen 11_3* , *Monatshefte für Mathematik und Physik*, 5 (1894) 325–330.
- [10] _____, *Die configurationen 12_3* , *Monatshefte für Mathematik und Physik*, 6 (1895) 223–254.

Proof without words: Sum of squares

$$1^2 + 2^2 + \cdots + n^2 = \frac{1}{3}n(n+1)(n+\frac{1}{2})$$



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