## End of the square?

## Fabien Schang

Universidade Estadual de Maringà, Brazil
SCHANGFABIEN@GMAIL.COM

It has been recently argued that the well-known square of opposition is a useless gathering that can be reduced to a one-dimensional figure, viz. an ordered line segment of positive and negative integers [1]. However, onedimensionality leads to some difficulties once the structure of opposed terms goes beyond categorical statements, including logical hexagons.

An alternative structure is proposed in the present talk, relying upon a semantics of bitstrings and leading to a systematic gathering for any length $n$ of the bitstrings $[2,3]$ : the structure is a rectangle whenever $n$ is odd; it is a square whenever $n$ is even, although the latter are not structured like the Aristotelian square.


## References

1. A. Costa-Leite, "Opposition in a line segment", Cornell: arXiv:1604.03054, 2016.
2. F. Schang, "An Arithmetization of Logical Oppositions", in: The Square of Opposition: A Cornerstone of Thought, Basel: Birkhäuser.
3. H. Smessaert and L. Demey, "Logical Geometries and Information in the Square of Oppositions", Journal of Logic, Language and Information, vol. 23, 2014, pp. 527-565.
