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On graded and ungraded associativity

vendredi 9 décembre 2022 09:00 (50 minutes)

For a long time, by now, I have been working on geometries related to associative and non-associative algebras. First of all, I will discuss some aspects of associative structures, such as *associative geometries*, defined in work with M. Kinyon, https://arxiv.org/abs/0903.5441. Second, I will propose a framework of *graded associative* structures, following https://arxiv.org/abs/2109.00878v1. This graded framework grew out of the very general, functorial and ungraded approach to differential calculus https://arxiv.org/abs/2006.04452 – my hope is that this functorial approach would make sense also in the graded framework, thus opening a way to a functorial super-calculus. However, for the time being, this rather is conjectural and speculative – see also http://wolfgang.bertram.perso.math.cnrs.fr/WB-PCS.pdf

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