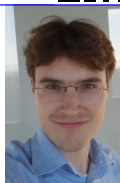




Abstract. Recently, in September 2025, Roland van der Veen and myself released a paper titled “A Fast, Strong, Topologically Meaningful, and Fun Knot Invariant” (that’s 4☺; see [BV3]). More recently, in January 2025 in Les Diablerets (see <https://drorbn.net/ld26>), I gave a talk in which I suggested 27 homework tasks related to that same invariant Θ (plus a bonus task). Today, after a brief review, I’ll talk a bit more about just 4 of those tasks:



- ☺ Figure out the relationship of Θ with Chern Simons theory.
- ☺ Complete the discussion of the relationship of Θ with sl_3 .
- ☺ Find formulas for Θ corresponding to other presentations of the Alexander module.
- ☺ Fully understand Θ -like formulas and their non-uniqueness (i.e., clean the mess).

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