2016-02-14.14:38 Sun

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Quantum matrices should allow any √1 on the main diagonal

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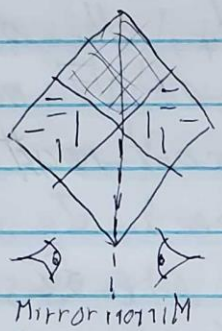
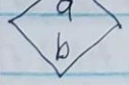


There is an extraordinarily simple principle behind concepts such as Hermitian matrices, which is that any mirror-image matrix setup using vertical-main-diagonal form with all numeric constants in S_n permutation matrix form is a square root of 1. That is for all permutation matrices, not just "diaps" ([dia]mond [p]late (diap = the subset of S_{2^n} $n=0,1,2,\ldots$ matrices with the recursive constraint that at each scale, two opposite quadrants must be completely empty, either the main diagonal quadrants [vertical in this presentation] or the minor diagonal quadrants [horizontal in this format]

Any diap that is mirror symmetric automatically is also mirror symmetric in the multiplication "trellis," and so is a square root of one



Issue: The "real numbers only" Hermitian constraint is too strong, forbidding eg. "a" and "b."

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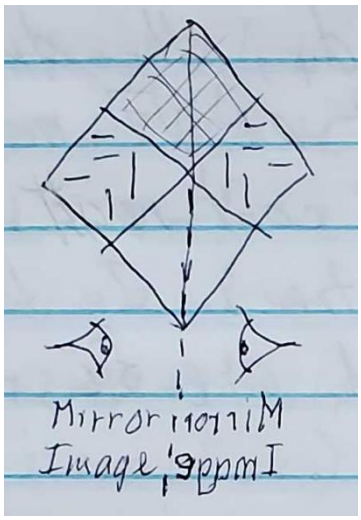

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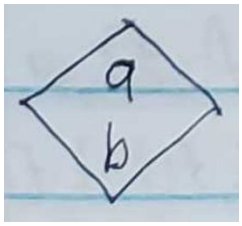

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[15:35]

Terry Bollinger 2016-02-14.15:37 Sun