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Some intriguing maths in dynamical mean-field for glasses

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The solution of the dynamics of glasses at the mean-field level - for example in the limit of high dimension – has a few surprises. The equations possess an emergent reparametrization invariance. The supersymmetry associated with thermal equilibrium is broken, but a new one arises ‘from nowhere’. These two intriguing mathematical features dominate the glassy phenomenology.

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