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On Freudenthal Duality

Freudenthal duality can be defined as an anti-involutive, non-linear map acting on symplectic spaces.

After a general introduction on some aspects of Maxwell-Einstein (super)gravity theories in four dimensions, I will consider their electric-magnetic duality Lie groups "of type E7", and the corresponding notion of Freudenthal duality.

I will also comment on the relation between the Hessian of the black hole entropy and the rigid, special Kaehler manifolds given by the pre-homogeneous vector spaces associated to the duality orbits.

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