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# Einstein metrics and two projection maps

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A new technical running model was constructed for the states of a mathematical deuteron atomic kernel. The description requires to double up the space-time dimensions of physics to eight with one rolled octonian U(1) coordinate for exponential functions and waves. The model includes three new methods: Projective geometry and central projections for gravity; the strong geometry as a complex 2-dimensional inner deuteron space with a bounding Riemannian sphere $S^2$ for six force integrations; the symmetry of Moebius transformations MT on $S^2$ and Gleason frames GF and measures. Einstein's relativities are included on deuteron base by their representation as MT scaling factors. The inner deuteron dynamics has associated several technical constructions available as tool chest, the hedgehog driven by three potential, strong, weak interaction motors. This is presented in videos with technics from physics or solid material similar to chemistry molecule simulations. Resulting from this geometrical, dynamical constructions with the MT symmetry and new non-commutative GF measures, as an extension the gravitational interaction for the deuteron quantum range to the standard model of physics which uses the symmetry of U(1)xSU(2)xSU(3) is being added.

## Biography

Gudrun Kalmbach is a Mathematics Professor, inventor of MINT (Mathematik, Informatik, Naturwissenschaften, Technik), organized 1985-2002 the Tag der Mathematik Baden-Wuerttemberg und university courses for highschool students, publishes scientific books and articles in MINT and Mathematical Physics (from 1968 to Deuteron States, NessaPubl. 2017).

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