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K. Uzawa: Dynamical branes on expanding orbifold and complex projective space

Monday 19 December 2022 15:15 (15 minutes)

We construct some new dynamical p -brane solutions to gravity theories on curved backgrounds. These solutions depend on time and are carriers of the p -form field strength. The simplest such solutions have the function of $(p + 1)$ -dimensional worldvolume spacetime, i.e. dynamical p -branes. We discuss the relations between dynamical branes, a new time-dependent solution on complex projective space CP^n and the static p -branes on the orbifold C^n/Z_n .

Session Classification: Session 3 B