

Acceleration Via Kalb–Ramond Field, Torsion, Raychaudhuri, PI

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Acceleration Via Kalb–Ramond Field, Torsion, Raychaudhuri, PI
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M. Kalb and P. Ramond, Phys. Rev. D9 2273 (1974) discovered the Kalb–Ramond field, which has been especially valuable in developing the relationships between geometry and physics via the Raychaudhuri equation especially via the India schools of research. Among the latter researchers are Sayan Kar (Institute of Physics, Sachwalaya Marg, Bhubaneswar, India), S. Sengupta (Indian Association for the Cultivation of Science, Calcutta), S. Sur (Dept. Physics Jadavpur U., Calcutta), A. Sinha, etc. The Italians E. Di Grezia (U. Napoli) and S. Esposito (U. di Monte S. Angelo, Napoli) and M. Botta Cantcheff have also contributed among others.

The researchers mentioned seem to have little hesitation in combining new ideas or in worrying about the priority of mathematics versus physics. This is also notable in the work of Hestenes of Arizona State University in Clifford Calculus/Spacetime Physics. Neither is anybody mentioned apparently obsessed with the priority of Quantum theory vs General Relativity vs Superstring/Brane theory, although insofar as the Kalb–Ramond field is concerned there seem to be few if any explicit connections with Loop Quantum Gravity (LQG). The India and Italian researchers are decidedly against "prohibitions" including the LQG prohibition against backgrounds or some physicists' prohibitions against the Cosmology and Condensed branches of physics. Nobody among the people mentioned seems to be a Bohmian either or a pure experimentalist or a holdout for "pure QFT" or pure "algebraic topology physics" or pure "algebraic geometry physics".

Osher Doctorow

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