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Deformation quantization of symmetric Kähler manifolds

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A deformation quantization with separation of variables is one of wellknown quantizations of Kahler manifolds. Explicit expressions of the quantization for C^N, CP^N and CH^N were known. We derive algebraic recurrence relations to obtain a deformation quantization with separation of variables for a locally symmetric Kahler manifold. C^N, CP^N and CH^N were locally symmetric Kahler manifolds and Riemann surfaces are also locally symmetric Kahler manifolds. It is not easy to solve the recurrence relations but some are solvable. We found a deformation quantization with separation of variables for Riemann surfaces.

Biography

Kentaro Hara has completed his Master's degree from Tokyo Metropolitan University. He is pursuing his Doctoral course at the Tokyo University of Science. He has published a paper in reputed journals like *Journal of Geometry and Physics*.

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