

Colloquium

A brief introduction of Integral Geometry and its application to CR geometry

主講人：黃彥彰 博士
楷谷科技股份有限公司

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摘 要：

Integral Geometry originated from geometric probability. After the extensive development from many great contributors, it firmly establishes many applications in different fields, including stochastic geometry, geometric tomography, stereology, imaging science, medical science, and information science and so on. We plan to illustrate several fundamental formulas in Integral Geometry and its applications. Finally, as the application of the method of moving frames from Élie Cartan, we show our recent result connecting Integral Geometry and CR geometry.