

TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Zoom meeting

Monday, March 7 2022, 2:40 p.m.

*The Cauchy integral operator for hypocomplex
vector fields*

by Hamid Meziani

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Abstract: For a nonsingular planar vector field L with complex-valued coefficient that has local first integrals that are open maps, we consider the equation $Lu = f$ and show its solutions can be represented through a generalized Cauchy integral operator.