UNIVERSIDAD DE LA FRONTERA

SEMINARIO CRUZ DEL SUR

DEPARTAMENTO DE MATEMÁTICA Y ESTADÍSTICA – UFRO

EXISTENCE OF SOLUTIONS FOR THE 3D-MICROPOLAR FLUID SYSTEM WITH INITIAL DATA IN BESOV-MORREY SPACES

ERWIN HENRÍQUEZ LAGOS
DEPARTAMENTO DE MATEMÁTICA Y ESTADÍSTICA
UNIVERSIDAD DE LA FRONTERA

Miércoles 6 de Abril del 2016, 17h00
Sala I-105

Resumen.
We show a local-in-time existence result for the 3D micropolar fluid system in the framework of Besov-Morrey spaces with time fractional differential operator of order $\alpha \in (0, 1]$. The kind of solution involves a family of opperators called Mittag-Leffler, which arises naturally in the abstract theory of fractional calculus. The initial data class is larger than the previous ones and contains strongly singular functions and measures.

E-mail address: erwin.henriquez@ufrontera.cl