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**Pablo Raúl Stinga\*** ([stinga@iastate.edu](mailto:stinga@iastate.edu)), Iowa State University. *Regularity theory for nonlocal space-time master equations.*

We report on newly developed regularity theory for fractional powers of parabolic operators in divergence form. Our results include local degenerate parabolic extension problems, interior and boundary Harnack inequalities and sharp interior and global parabolic Schauder estimates. For the latter, we also prove a characterization of the correct intermediate parabolic Hölder spaces in the spirit of Sergio Campanato. This is joint work with Animesh Biswas (Iowa State University (Received August 26, 2019))