

# Maximum principle for the fractional partial differential equations and its applications

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In this talk, a survey of some results regarding the maximum principle for the fractional PDEs is provided. We start with the time-fractional PDEs with the Caputo and the Riemann-Liouville fractional derivatives and proceed with the equations containing the general time-fractional derivatives with the Sonine kernels. Finally, some results about the maximum principle for the time-space-fractional PDEs are discussed.