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Geometry of the universe described by wet dark fluid in f(R, T) theory of gravity

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The Bianchi type-III cosmological model in gravity is investigated with the equation of state for wet dark fluid i.e. $P_{WDF} = \omega(\rho_{WDF} - \rho^*)$. Using Volumetric and power law expansion we obtained the exact solution of the field equations. The various astrophysical phenomena namely the look back time, proper distance, luminosity distance, Angular diameter, jerk parameter and cosmic snap with red shift and state-finder parameters are also discussed.

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