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Joel C R Nagloo* (joel.nagloo@bcc.cuny.edu). *On the Algebraic Independence Conjecture for the Generic Painlevé Equations*. Preliminary report.

In this talk, we explain how the Riccati equations can be used to show that the solutions (and derivatives) of the generic sixth Painlevé equation are algebraically independent over $\mathbb{C}(t)$. This extends recent progress made on the third Painlevé equations and hence fully proves the algebraic independence conjecture for the generic Painlevé equations. (Received March 20, 2017)