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Mathematics > Classical Analysis and ODEs

## A note on the R. Fuchs's problem for the Painlevé equations

## Tsvetana Lyubenova Stoyanova

(Submitted on 1 Apr 2012)

In this article we consider a first-order completely integrable system of partial differential equations  $\phi = A(x, t) F_i$ , partial  $E_B(x, t) F_i$ t) Fi with  $Ti=(1, 1, 1, 2)^{tau}$  where A(x, t) and B(x, t) are 2 by 2 holomorphic matrices functions. Under some assumptions we find a variable an equation independent on the variable \$t\$. As an application we show that the R. Fuchs's conjecture for the Painlev\'e equations is true for some algebraic solutions.

Comments: 16 pages Subjects: Classical Analysis and ODEs (math.CA); Exactly Solvable and Integrable Systems (nlin.SI) Cite as: arXiv:1204.0157v1 [math.CA]

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