GENEL SEMINER CHAOS AND NON-LINEAR DYNAMIC EQUATIONS VI

"Factorization of scalar differential operators and Schwarzian"

Sergey BORISENOK

Herzen State University & İstanbul Kültür University Department of Mathematics and Computer Science

Özet: We discuss the way to factorize some class of scalar differential operators L_n expressed with ordinary derivatives and pre-Schwarzians by the method of Weiss. Every operator of the order n from this class can be represented in the terms of the corresponding Schwarzian operator and its derivatives of the order n-2 or less (Weiss' Theorem). By this result we can construct the solution of the equation $L_{n+1}f_n = 0$.

> Tarih: 11/05/2010 Saat: 16:00 Yer: İstanbul Kültür Üniversitesi Fen-Edebiyat Fakültesi, Erdal İnönü Seminer Salonu Ataköy Yerleşkesi, Bakırköy 34156, İstanbul