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Thesis Title	*Calculation of current correlation functions and anomalous dimension in integrable deformations of two dimensional conformal field theories*
Supervisor	K. Sfetsos, Professor
Summary	In the presented thesis we calculate the exact two and three point correlation functions as well as the beta-function for currents of deformed conformal field theories in two dimensions, which maintain their integrability. A common example is the non Abelian analog of the Thirring model. In our calculations we combine the results derived from lower order perturbations , with non-perturbative symmetries of the present theory. From correlation functions we derive the anomalous dimensions of current operators, and the beta function as defined in the context of the renormalization group.
Key words	Integrability, conformal field theory, anomalous dimension, β-function
Evaluation committee	K. Sfetsos, Professor G. Diamantis, Associate Professor V. Spanos, Associate Professor