



Σεμινάριο Γεωμετρίας

Hierarchies of compatible maps and integrable difference systems

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Περίληψη

We introduce families of non-Abelian compatible maps associated with N -th order discrete spectral problems. In that respect we have hierarchies of families of compatible maps that in turn are associated with hierarchies of set-theoretical solutions of the 2-simplex equation a.k.a Yang-Baxter maps. These hierarchies are naturally associated with integrable difference systems with variables defined on edges of an elementary cell of the \mathbb{Z}^2 graph, that in turn lead to hierarchies of difference systems with variables defined on vertices of the same cell.

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