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DYNAMICAL YANG-BAXTER MAPS

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ABSTRACT. In this work, we propose and investigate dynamical Yang-Baxter maps, some of which produce solutions to the (quantum) dynamical Yang-Baxter equation. Suppose that L is a loop and a group. If their unit elements coincide, then L gives birth to a bijective dynamical Yang-Baxter map from $L \times L$ to $L \times L$ whose dynamical parameter belongs to L . The above group L is abelian if and only if the corresponding dynamical Yang-Baxter map satisfies the unitary condition.