

Reducts of degenerate solutions of Yang-Baxter equation

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One of the most important notions when studying non-degenerate solutions of the Yang-Baxter equation is the notion of the retract congruence. When passing to degenerate solutions, the naïve approach fails since we do not obtain a congruence in general. We present here a working generalization of the retract congruence along with some examples that illustrate the choice of the definition.