On reverse and forward order laws for the (b, c)-inverse in rings

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The (b, c)-inverse unifies some well known generalized inverses, such as the Moore-Penrose inverse, the Drazin inverse, the core inverse, the inverse along an element, etc. In this talk, the reverse order law for the (b, c)-inverse, in a ring with a unity, is discussed. Also, we introduce the forward order law for the (b, c)-inverse in a ring with a unity. We derive equivalent conditions for these rules to hold and we analyze these rules for different choices of b and c.

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