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Valon model for double parton distributions

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We explore ansätze for parton distributions of the proton following the idea of the valon model, where the Fock components have the form $f_1(x_1)f_1(x_2)\dots f_n(x_n)\delta(1-x_1-x_2-\dots-x_n)$. Upon integration, double and single parton distributions are generated from the n -particle distributions. We show that the construction leads to preservation of the Gaunt-Stirling sum rules, thus providing distributions with the required features which can be used in phenomenological studies.

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