

On the construction of theories of $Sp(4)$ dark matter

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We discuss construction principles of strongly interacting theories containing a dark matter candidate, with a particular focus on an $Sp(4)$ gauge symmetry. We give an account of the global symmetries and breaking patterns of these theories. Finally, we discuss simple portals between the DM sector and the standard model, as well as elucidate phenomenological consequences of such couplings.

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