

Faithful Extension of Constant Height and Constant Width between Finite Posets

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Abstract : The problem of faithful extension with the condition of keeping constant height h and constant width w , i.e. for hw -inextensibility, seems more interesting than the brute extension of finite poset (partially ordered set). We shall investigate some theorems of hw -inextensive and hw -extensive posets that can be used to formulate the faithful extension problem. A theorem in its general form of hw -inextensive posets are given to implement the presented theorems.

Keywords : faithful extension, poset, extension, inextension, height, width, hw -extensive, hw -inextensive

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