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Quasi Separation Axioms

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Abstract: In [5], Maheshwari et al. introduced and studied some new separation axioms, namely, quasi semi T_i axioms where i \in {0, 1, 2}, the quasi semi $T_{1/2}$ axiom was then introduced and investigated by Gyu-Ihn et al. in [2]. In the present paper we introduce and study quasi T_i axioms, i \in {0, 1 / 2, 1, 2} as a special variety of quasi semi T_i axioms, the class of quasi $T_{1/2}$ (respectively, quasi T_1) bitopological spaces is placed between quasi T_0 (respectively, quasi $T_{1/2}$) bitopological spaces and quasi T_1 (respectively, quasi T_2) bitopological spaces. Among several counter examples we introduce an example of a bitopological space which is quasi T_0 that fails to be quasi semi $T_{1/2}$, thus answering a question raised in [2].

Key Words: bitopological spaces, quasi open sets, quasi semi-open sets, quasi T_i, quasi semi T_i, i \in {0, 1 / 2, 1, 2}

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