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Title: Some sub-classes of paranormal weighted conditional type operators

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In this paper, some sub-classes of paranormal weighted conditional type operators of the form M_wEM_u , such as $*$ -paranormal, quasi- $*$ -paranormal and (n, k) -quasi- $*$ -paranormal weighted conditional type operators on $L^2(\Sigma)$ are investigated. As a consequence we get that some of these sub-classes coincide if and only if a reverse conditional type Hölder inequality holds for w, u . Finally, we get some results about the spectrum, point spectrum, joint point spectrum, approximate point spectrum and joint approximate point spectrum of WCT operators. The results of this paper and some other papers that we wrote about WCT operators show that the conditional type Hölder inequality for w, u plays a major role in the behavior of WCT operators.

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