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Direct determination of neutrino mass parameters at future colliders

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We investigate in the framework of type-II see-saw mechanism the relationships between the neutrino parameters and the Higgs triplet. The mass matrix of the neutrinos is directly related to the branching ratios of the doubly charged component of the triplet allowing an insight to the neutrino parameters by measuring the branching ratios to leptons. We derive relevant analytic results to tell the neutrino mass hierarchy and lowest neutrino mass as well as give estimates on the Majorana phases. This study also has implications on the searches that are performed at the colliders.

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