The alpha invariant of twisted Milnor hypersurfaces

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In this talk, we give a computable formula about alpha invariant of twisted milnor hypersurfaces with spin struture and dimension no less than 5. Using the result, we can also give the formula about A-hat genus and we do not restrict conditions on the spin structure and the dimension. As an important application, we talk about the existence of positive scalar curvature(PSC) with its sufficient and necessary conditions. In the last part, we would talk about other interesting things such as circle action on twisted Milnor hypersurfaces.