# Geometry Webinar AmSur/AmSul

## Special classes of transversely Kähler almost contact metric manifolds

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**Resumo:** I will discuss some special classes of almost contact metric manifolds $(M,\varphi,\xi,\eta,g)$ such that the structure $(\varphi,g)$ is projectable along the 1-dimensional foliation generated by $\xi$, and the transverse geometry is given by a Kähler structure. I will focus on quasi-Sasakian manifolds and the new class of anti-quasi-Sasakian manifolds. In this case, the transverse geometry is given by a Kähler structure endowed with a closed 2-form of type (2,0), as for instance hyperkähler structures. I will describe examples of anti-quasi-Sasakian manifolds, including compact nilmanifolds and principal circle bundles, investigate Riemannian curvature properties, and the existence of connections with torsion preserving the structure. This is a joint work with Dario Di Pinto (Bari).