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Vaisman manifolds, Calabi-Eckmann manifolds and Sasaki manifolds are not Kähler, but they carry a transverse Kähler structure. In this talk, we will give some properties of basic Dolbeault cohomology on a transverse Kähler foliation. In particular, we study the Kodaira-Serra duality and hard Lefschetz theorem on a transverse Kähler foliation. (Received September 01, 2019)