On holomorphic foliations admitting invariant CR manifolds

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Abstract. We study holomorphic foliations of codimension $k \geq 1$ on a complex manifold X of dimension $n + k$ from the point of view of the exceptional minimal set conjecture. For $n \geq 2$ we show in particular that if the holomorphic normal bundle $N_{\mathcal{F}}$ is Griffiths positive, then the foliation does not admit a compact invariant set that is a complete intersection of k smooth real hypersurfaces in X.