## Lefschetz type theorems on weakly 1-complete manifolds

For a holomorphic one-form  $\alpha$  on a weakly 1-complete manifold X with certain properties, We will discuss the connectivity of the pair  $(\hat{X}, F^{-1}(z))$ , where  $\pi : \hat{X} \to X$  is a covering map and F is a holomorphic function on  $\hat{X}$  such that  $dF = \pi^* \alpha$ . We will also talk about the criteria regarding when such a manifold X admits a proper holomorphic mapping onto a Riemann surface.