

Let  $C$  be a complex projective curve and let  $L$  and  $M$  be two line bundles on  $C$ . One can associate with  $L$  and  $M$  some natural maps, which are called Gaussian maps, between spaces of global sections of certain sheaves on  $C$ . These maps have been classically studied in connection with extendability questions of curves on surfaces. In this talk I will focus on the case of Enriques surfaces, presenting some natural questions that arise in this situation.