On the Zariski-van Kampen Theorem

Ichiro Shimada

Abstract. Let \( f : E \to B \) be a dominant morphism, where \( E \) and \( B \) are smooth irreducible complex quasi-projective varieties, and let \( F_b \) be the general fiber of \( f \). We present conditions under which the homomorphism \( \pi_1(F_b) \to \pi_1(E) \) induced by the inclusion is injective.