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Dedicated to Costica MUSTATA on his 60th ammersary

ON THE STABILITY OF THE FINITE ELEMENT MIXED
APPROXIMATION FOR

CONTACT PROBLEMS WITH FRICTION

Nicolae POP

Abstract. The aim of the paper is to translate the contact conditions and the stability conditions which include an inf – sup condition for the mixed element method of the contact problems with friction, on the Lagrange multipliers space and on the space of the traces functions called the mortar space.

MSC: 35K85, 49J40

Keywords. Unilateral contact, mixed finite element, Coulomb law, inf - sup condition, and to the substitute of the law and substitute of the law a