NOTE ON LOWER AND UPPER APPROXIMATIONS IN A FUZZY GROUP

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Here we mainly prove that, if \( \mu \) is a fuzzy normal subgroup of a group \( G \) and \( t \in [0,1] \), then for every \( x \in G \), \( \{x\}_\mu = xG^{t}_\mu \). Further we prove that the congruence class \( [x]_\mu \) of \( \mu \) containing the element \( x \) of \( G \) exists only when \( \mu \) is a fuzzy normal subgroup of \( G \).