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NEWTON–LIKE METHOD FOR NONSMOOTH SUBANALYTIC VARIATIONAL INCLUSIONS

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Abstract. We present a new result for the local convergence of Newton–type method to a unique solution of a nonsmooth subanalytic variational inclusions in finite dimensional spaces. Under a center–type conditions [1]–[4] and using the same or less computational cost, we extend the applicability of Newton's method [8], [10].

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Key words. Variational inclusions, Aubin–like property, convergence analysis, subanalytic function, Newton's method, Clarke's subdifferential, center conditions, set–valued map.

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