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Fabric analysis and geometry of Dehvazir shear zone, Sanandaj-Sirjan metamorphic belt, Iran

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Study of structural fabrics and shear indicators in shear zones is important method for determination of sense of shear. In the last years structural geologists have noticed to determine of geometry and symmetry of shear zones. Definition of geometry of shear zones will help to understand structural evolution of shear zones. Study of structural in 3-D for determination the kinematic vorticity and separation of pure and simple shear component in many cases are very difficult. Study of stretching lineation and S-shear bands foliation are very important and will help to understand the geometry of shear zones. In this paper we have studied the Dehvazir shear zone in the north eastern of Neyriz area with application of important fabric element to present an evolutionary model. Our result show that both pure and simple shear components are acting in the study area. Finally we suggest the triclinic inclined transpression model for structural evolution of this shear zone.