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Flows of G_2 structures.

We will discuss a family of flows of G_2 structures on seven dimensional Riemannian manifolds. We will prove short-time existence and uniqueness of solution to the flows. Time permitting, we will discuss a special case called the "isometric flow" of G_2 structures, in detail. This is a joint work with Panagiotis Gianniotis and Spiro Karigiannis.