Seven dimensional Bianchi-Cartan-Vranceanu spaces

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It is well known the differential geometry of 3-dimensional Bianchi, Cartan and Vranceanu (BCV) spaces W^3. We give a natural seven dimensional generalization W^7 of those spaces and study some properties, such as the Levi-Civita connection, Ricci curvatures and Killing vector fields. We also show that W^3 is an immersed submanifold of W^7.