1039-53-93   **Yun Myung Oh*** (`ohy@andrews.edu`), 8688 Lilac Lane, Berrien Springs, Mi, MI 49103.
Lagrangian H-umbilical submanifold in a quaternion Euclidean space.

B. Y. Chen proved that the Lagrangian H-umbilical submanifolds in complex Euclidean space $\mathbf{C^n}$ are Lagrangian pseudo-spheres and complex extensors of the unit hypersphere of $\mathbf{E^n}$, except the flat ones. Similar to this, the Lagrangian H-umbilical submanifold in quaternion Euclidean space can be defined and they are classified as following: flat, Lagrangian pseudo-sphere in $\mathbf{C^n}$ or quaternion extensor of the unit hypersphere of $\mathbf{E^n}$ up to rigid motions of $\mathbf{H^n}$. Moreover, the author could derive the explicit representation of flat Lagrangian H-umbilical submanifolds in $\mathbf{H^n}$ using a special Legendre curve. (Received March 08, 2008)