1157-13-522 **Claudia Polini**, **Ngo Viet Trung**, **Bernd Ulrich** and **Javid Validashti***
(jvalidas@depual.edu). *Multiplicity Sequence and Integral Dependence.*

Let $I \subset J$ be a pair of arbitrary ideals in an equidimensional and universally catenary Noetherian local ring. We prove that I and J have the same integral closure if and only if they have the same multiplicity sequence introduced by Achilles and Manaresi. We also obtain a Principle of Specialization of Integral Dependence, which gives a condition for integral dependence in terms of the constancy of the multiplicity sequence in families. (Received February 03, 2020)