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Bogdan Vernescu and **William Sanguinet**. *Nonlinear Neutral Inclusions: Assemblages of Spheres*. Preliminary report.

If a neutral inclusion is inserted in a matrix containing a uniform applied electric field, it does not disturb the field outside the inclusion. The well known Hashin coated sphere is an example of a neutral coated inclusion. In this talk, we consider the problem of constructing neutral inclusions from nonlinear materials. In particular, we discuss assemblages of coated spheres and the two-dimensional analogous problem of assemblages of coated disks. (Received September 16, 2012)