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Title: On \mathbb{Z}_p -graded identities and cocharacters of the Grassmann algebra

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Abstract: Let p be an odd prime number, F a field of characteristic zero, and let E be the unitary Grassmann algebra generated by the infinite-dimensional F -vector space L . In this talk we will show some recent results about the \mathbb{Z}_p -graded identities and cocharacters of the algebra E endowed with any \mathbb{Z}_p -grading such that L is a homogeneous subspace. This is a joint work with Onofrio Mario Di Vincenzo (Università della Basilicata - Italy) and Plamen Koshlukov (Universidade Estadual de Campinas - Brazil).