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## A Talk at the 2nd ISNMP Conference

Bad Ems, 28 June to 4 July 2026

### Open Problems Session:

**Speaker:** Jose Francisco Gomes (IFT-Unesp, Brazil)

**Title:** *Periodic solutions for integrable hierarchies*

**Abstract:** Within the algebraic approach the soliton solutions for integrable hierarchies can be constructed from a particular vacuum solution by the so called gauge “dressing” transformation . Within such spirit, two kind of solutions are known and can be systematically constructed from the zero vacuum and from the constant non-zero vacuum.