Symplectic double extensions for restricted quasi-Frobenius Lie (super)algebras

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This talk will be devoted to introduce a method for symplectic double extensions of restricted quasi-Frobenius Lie superalgebras. Certain cocycles of the restricted cohomology represent obstructions to symplectic double extension, which will be fully described. Then, we will present necessary conditions for a restricted quasi-Frobenius Lie superalgebra to be a symplectic double extension of a smaller restricted Lie superalgebra. Finally, we will illustrate these constructions with a few examples.

This is a joint work with Sofiane Bouarroudj and Yoshiaki Maeda.