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**Akira Masuoka\*** ([akira@math.tsukuba.ac.jp](mailto:akira@math.tsukuba.ac.jp)), Tsukuba, Ibaraki 305-8571, Japan. *Computing the second cohomology of Hopf algebras*. Preliminary report.

I will present such a non-standard method of computing the abelian second cohomology of Hopf algebras that derives information from the non-abelian second cohomology classifying cleft extensions. Especially, a quantum analogue of Whitehead's lemma for Lie-algebra cohomology will be proved. (Received July 23, 2007)