1048-16-313 **Stefaan Caenepeel*** (`scaenepe@vub.ac.be`), Vrije Universiteit Brussel, Pleinlaan 2, 1050 Brussels, Belgium, and **Andrei Marcus** (`marcus@math.ubbcluj.ro`), Babeş-Bolyai University, Str. Mihail Kogălniceanu 1, 400084 Cluj-Napoca, Romania. *Morita equivalences between Hopf-Galois extensions. Applications.*

Let A and B be two Hopf algebra extensions, and suppose that $A^{\mathrm{co}H}$ and $B^{\mathrm{co}H}$ are connected by a strict Morita context. We investigate when this Morita context can be lifted to a Morita context between A and B. To this end, we present a Structure Theorem for Hopf bimodules: the category of A-B-Hopf bimodules is equivalent to the category of modules over the cotensor product of A and B^{op}. We present applications to the Miyashita-Ulbrich actions and to Hopf subalgebras. As another application, we present a Hopf algebra version of an exact sequence due to Beattie and del Rio, connecting the graded Picard group of a strongly graded ring, and the stable part of the Picard group of its part of degree zero. (Received February 10, 2009)