1025-03-91        **Sakae Fuchino** and **Stefan Geschke\*** (`geschke@math.boisestate.edu`), Department of Mathematics, Boise State Universiy, 1910 University Drive, Boise, ID 83725-1555, and **Saharon Shelah** and **Lajos Soukup**. *The weak Freese-Nation property of complete Boolean algebras and large cardinals.*

The weak Freese-Nation property (WFN) is an algebraic property of Boolean algebras that can be considered as a generalization of projectivity and hence of freeness. It turns out that under mild assumptions on the non-existence of certain large cardinals, CH implies that every complete c.c.c. Boolean algebra has the WFN.

On the other hand, assuming the consistency of Chang's Conjecture for $\aleph_\omega$ together with GCH, we construct a model of set theory where GCH holds but no complete c.c.c. Boolean algebra of size $\geq \aleph_\omega$ has the WFN. We also discuss a related result for Cohen extensions of models of GCH.

All the presented results are older joint work with Fuchino, Shelah and Soukup. (Received January 16, 2007)