1056-42-854   **Peter Casazza** and **Gitta Kutyniok*** (`kutyniok@uni-osnabrueck.de`), Institute for
Mathematics, University of Osnabrueck, 49069 Osnabrueck, Germany. *A Quantitative Notion of
Redundancy.*

The notion of redundancy is at the heart of frame theory. However, in the case of finite frames, no quantitative notion
has been established yet. In this talk, we first introduce and discuss a list of desiderata a rationally defined quantitative
notion of redundancy for a finite frame shall satisfy. We then propose a notion of upper and lower redundancy which, in
particular, satisfies all properties advocated in the desiderata. (Received September 18, 2009)