

**REAL INTERPOLATION OF SEVERAL BANACH SPACES:
THEORY AND SOME APPLICATIONS**

IRINA ASEKRITOVA
(Växjö University, Sweden)

We will discuss some basic theorems of real interpolation of several Banach spaces. In particular, we will consider real interpolation of n -tuples of vector-valued spaces. Applications to interpolation of Besov, Sobolev and weighted Lebesgue spaces will be presented.