Subject: Re: ratio imaging
Posted by the_cacc on Wed, 13 Mar 2002 11:03:53 GMT
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Yo,

My $0.02... be a bit wary about filtering, it won't do magic for you (obviously!). However it will do *something*. Be curious about what that is...

Consider you have N + n1 (numerator + noise) and D + n2 (denominator + noise) and you are forming (N+n1)/(D+n2). What you really want is N/D, right? Filtering will give you <N+n1>/<D+n2>, where <> implies some sort of filtering. Ideally, <N+n1>=N and <D+n2>=D but it won't ever in reality. If you have an analytical expression for what N and D are, you might be able to work out what's going on analystically. Otherwise do some simulations and check that the <N+n1>/<D+n2> you are forming is approximately the N/D you want. Choose you filter, if any, on this basis.

Ciao.