

Dear Raja,

A brief weekly progress report. Please broadcast.

(1) I use a single coil placed at the origin to debug the BX, BY, BZ field shapes in BSHEET (ICOOL) and BIOT(INTEGRAL METHOD)).

(2) BSHEET and BIOT results are now almost identical ( $10^{-5}$ ) for BX and BZ fields along the axis!

I am still having trouble with the BY (dipole bending field) .

(3) When BSHEET and BIOT are used for the 24 rcoil RFOFO, as expected, I get superb agreement for

BX and BZ and not agreement for BY .

(4) I have checked  $\text{div}B=0$  and  $\text{curl}B=0$  for the BIOT integraltor upon Steve Brackers request.

(5) I am looking hard in to the BY problem. At this point I have only found problems in my BIOT code,

and have to assume there is still one left. I am also trying to understand the BSHEET code implementation.

(6) Steve Bracker will be here in 2 weeks and due to a busy schedule in October I will have to rely on his help.

lmc