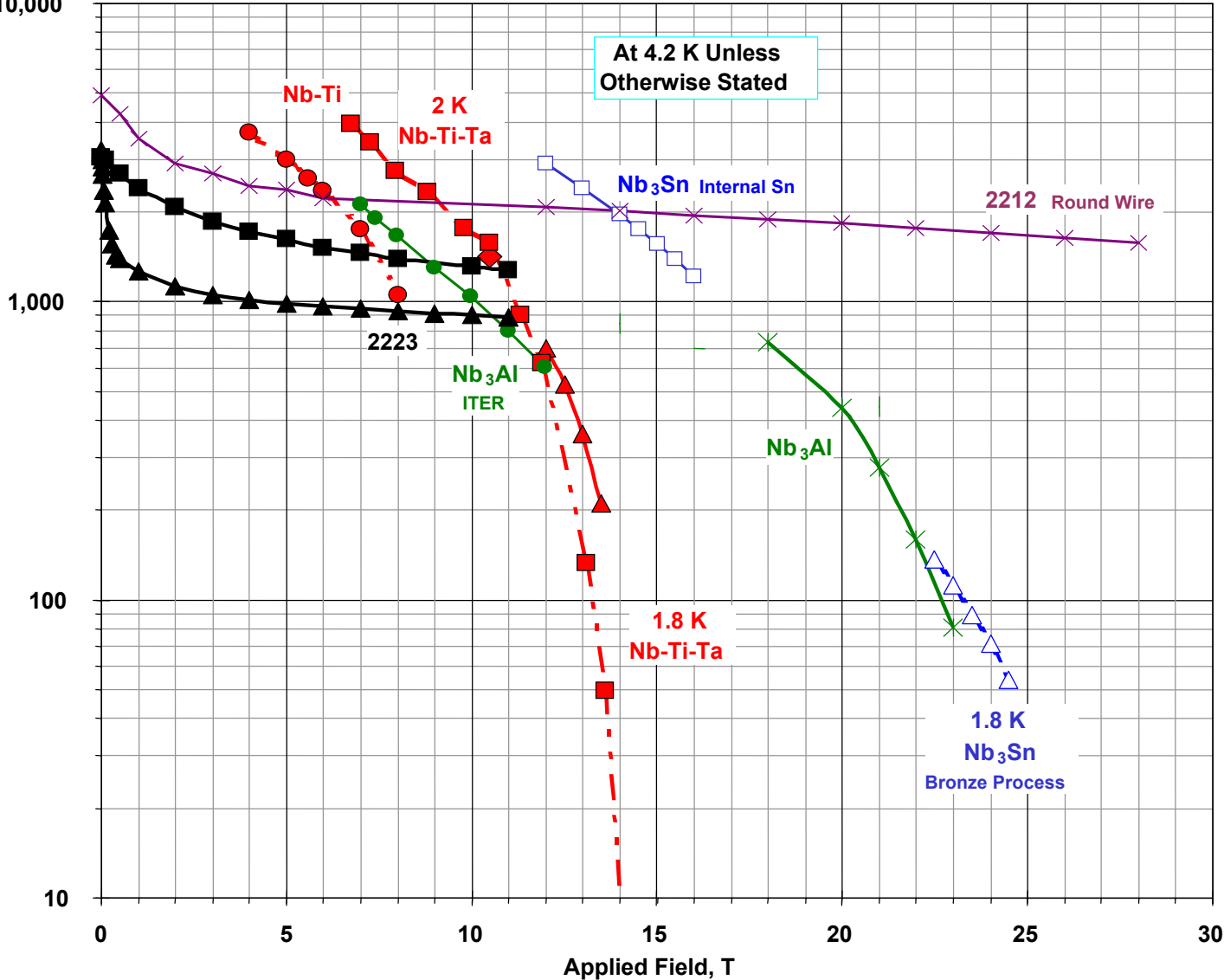


Advancing Critical Currents in Superconductors

Critical Current
Density, A/mm²
10,000



- Nb-Ti: Example of Best Industrial Scale Heat Treated Composites ~1990 (compilation)
- ◆ Nb-Ti(Fe): 1.9 K, Full-scale multifilamentary billet for FNAL/LHC (OS-STG) ASC'98
- ▲ Nb-44wt.%Ti-15wt.%Ta: at 1.8 K, monofil. high field optimized, unpubl. Lee et al. (UW-ASC) '96
- Nb-37Ti-22Ta: at 2.05 K, 210 fil. strand, 400 h total HT, Chernyi et al. (Kharkov), ASC2000
- △ Nb₃Sn: Bronze route VAC 62000 filament, non-Cu 0.1μW m 1.8 K J_c, VAC/NHMFL data courtesy M. Thoener.
- Nb₃Sn: Non-Cu J_c Internal Sn OI-ST RRP #6555-A, 0.8mm, LTSW 2002
- × Nb₃Al: Nb stabilized 2-stage JR process (Hitachi,TML-NRIM,IMR-TU), Fukuda et al. ICMC/ICEC '96
- Nb₃Al: JAERI strand for ITER TF coil
- × Bi-2212: non-Ag J_c, 427 fil. round wire, Ag/SC=3 (Hasegawa ASC2000+MT17-2001)
- Bi 2223: Rolled 85 Fil. Tape (AmSC) B||, UW'6/96
- ▲ Bi 2223: Rolled 85 Fil. Tape (AmSC) B_⊥, UW'6/96

