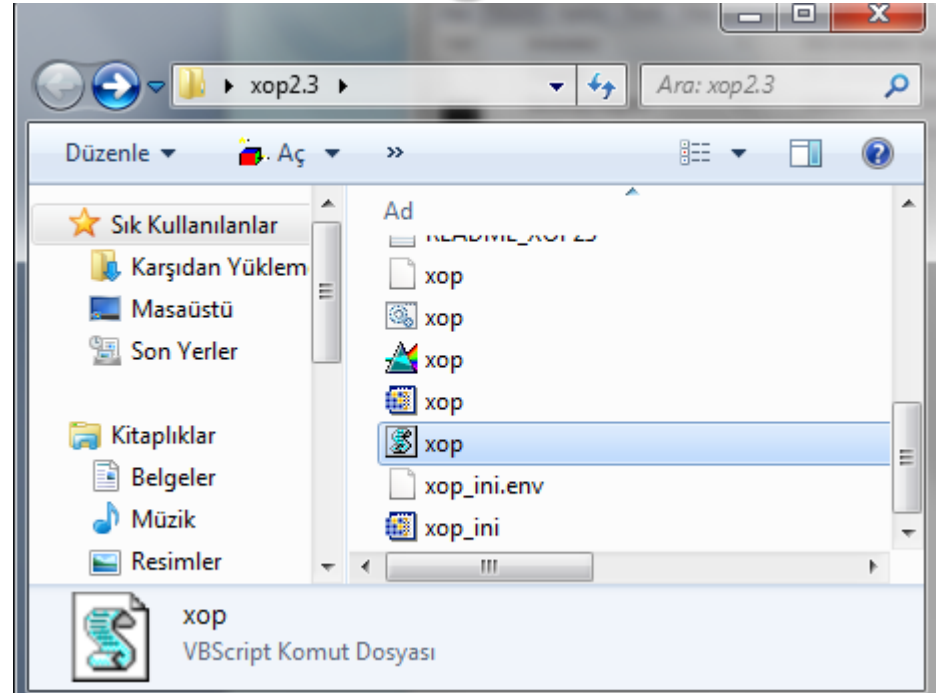
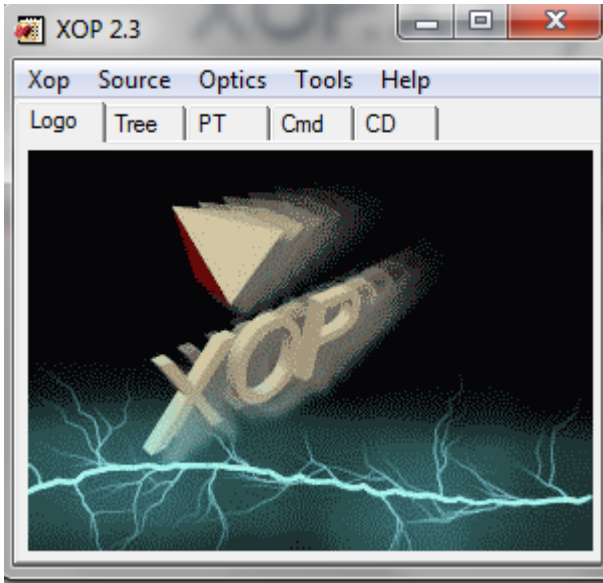


XOP

Yrd. Doç. Dr. Zafer NERGİZ
Niğde Üniversitesi

XOP: X-Ray Oriented Programs

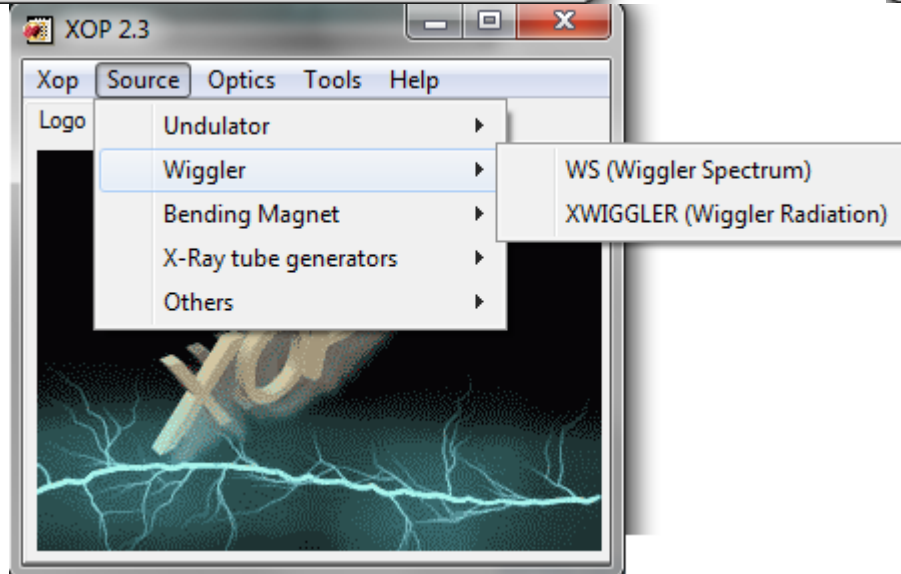
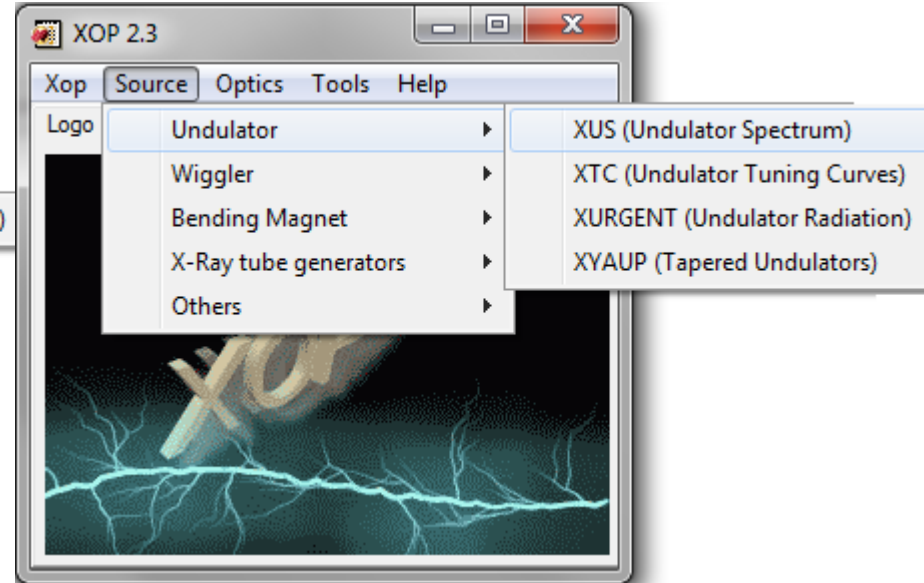
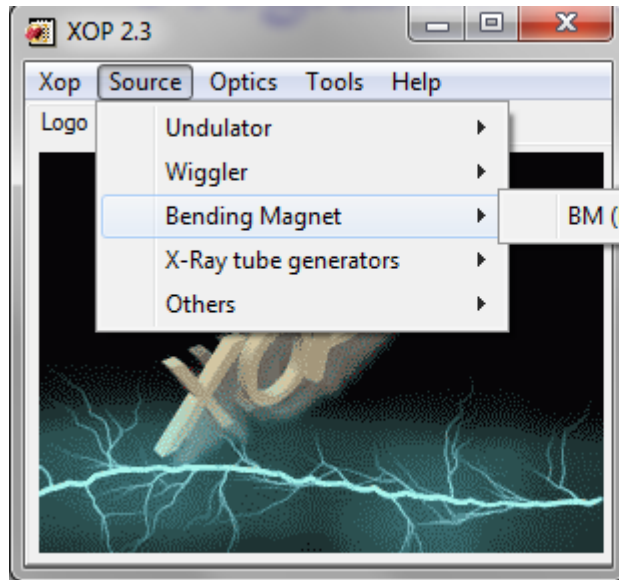
Programın bilgisayar kurulması gerekmiyor.
VBScript dosyası çift tıklanarak çalıştırılıyor.



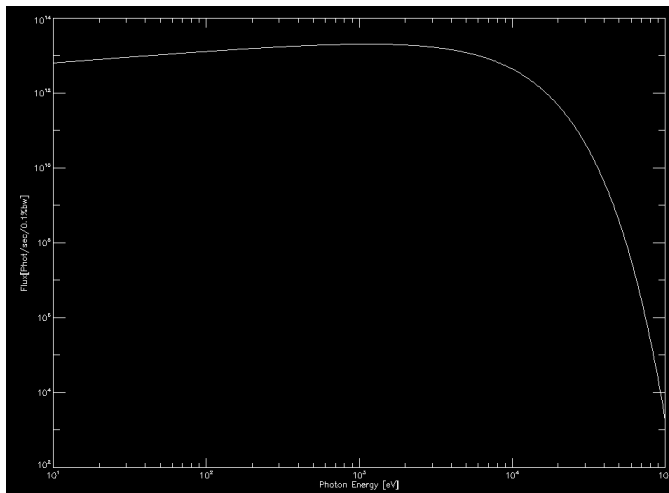
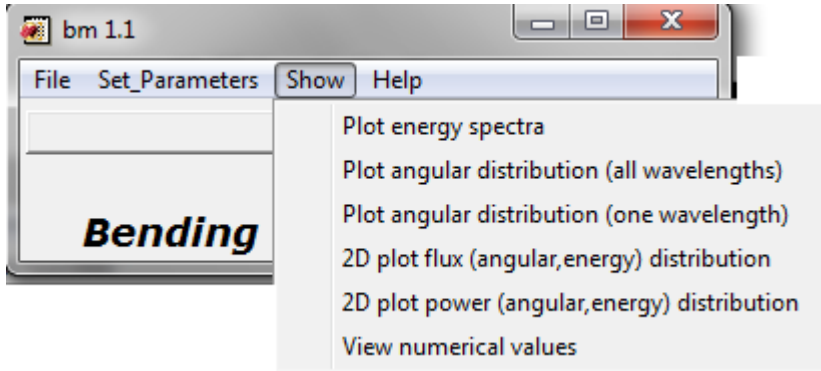
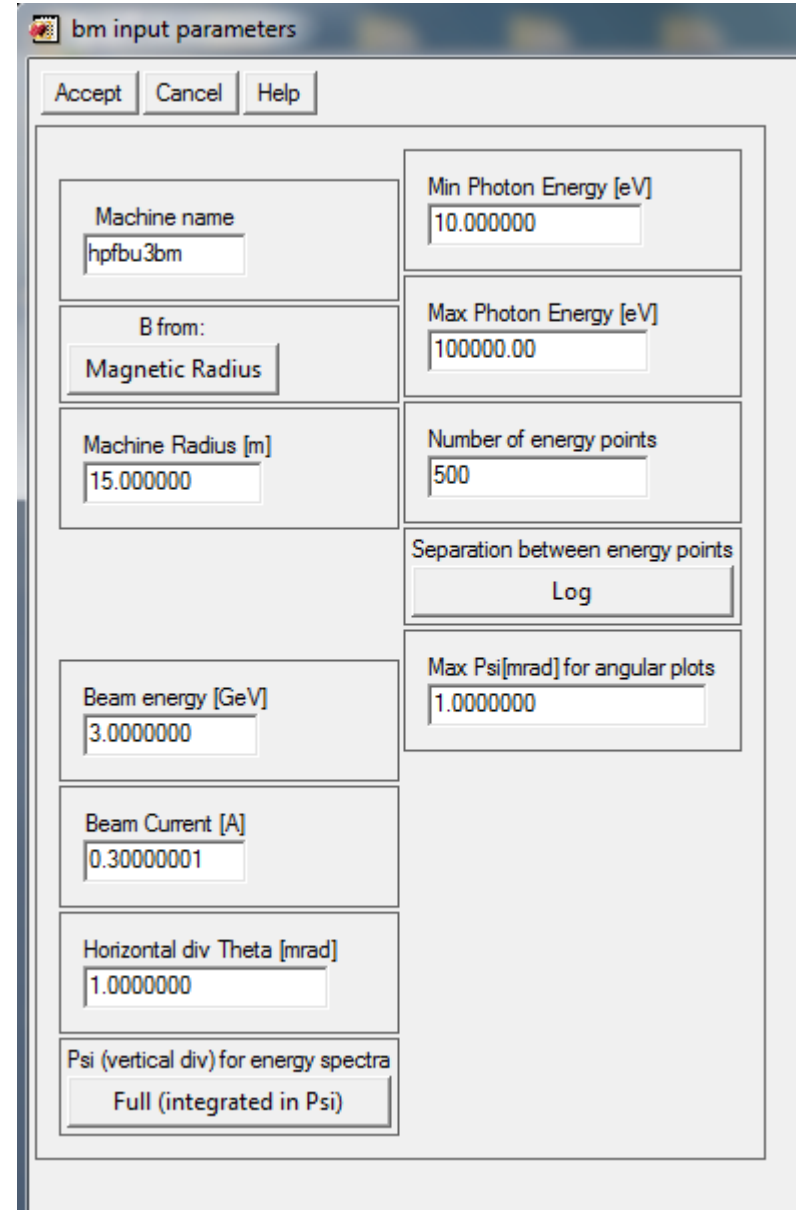
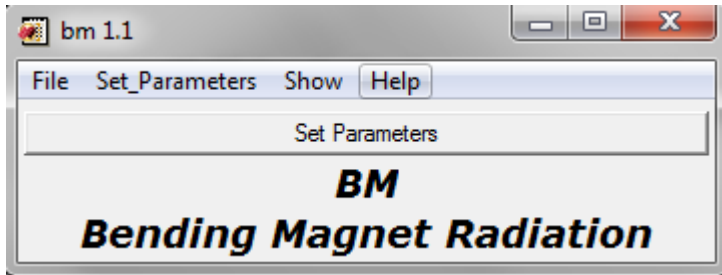
<http://ftp.esrf.eu/pub/scisoft/xop2.3/>



Programın Çalıştırılması



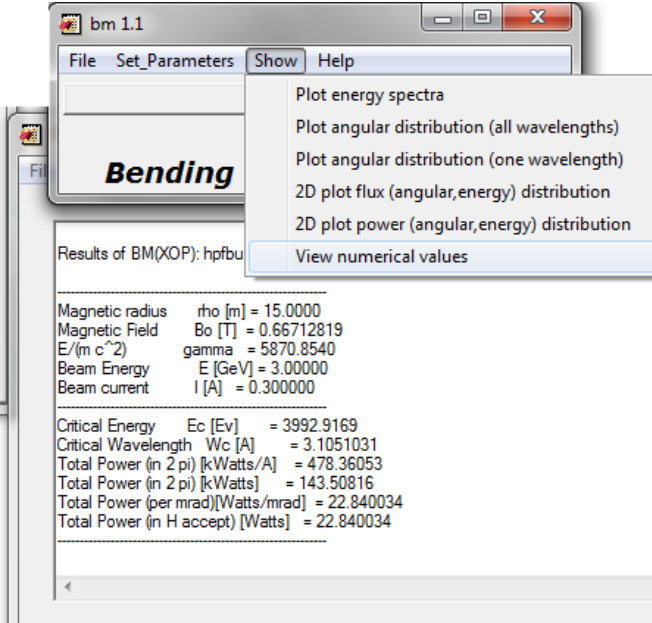
Eğici Magnet Işınımı



Uygulama

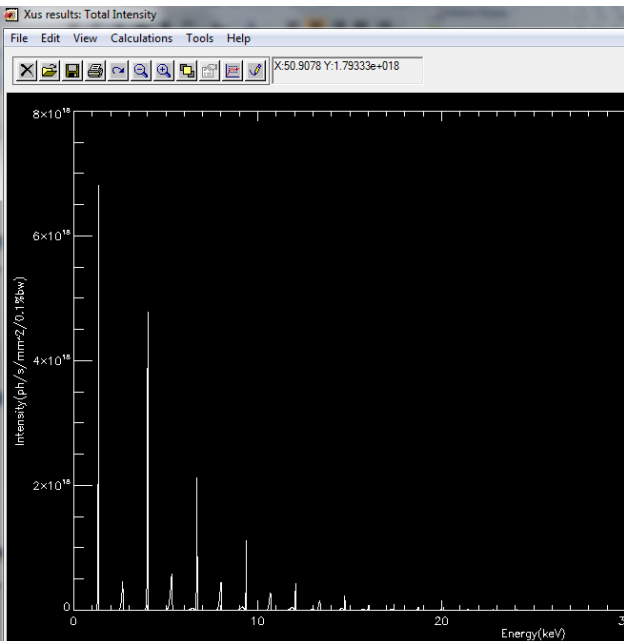
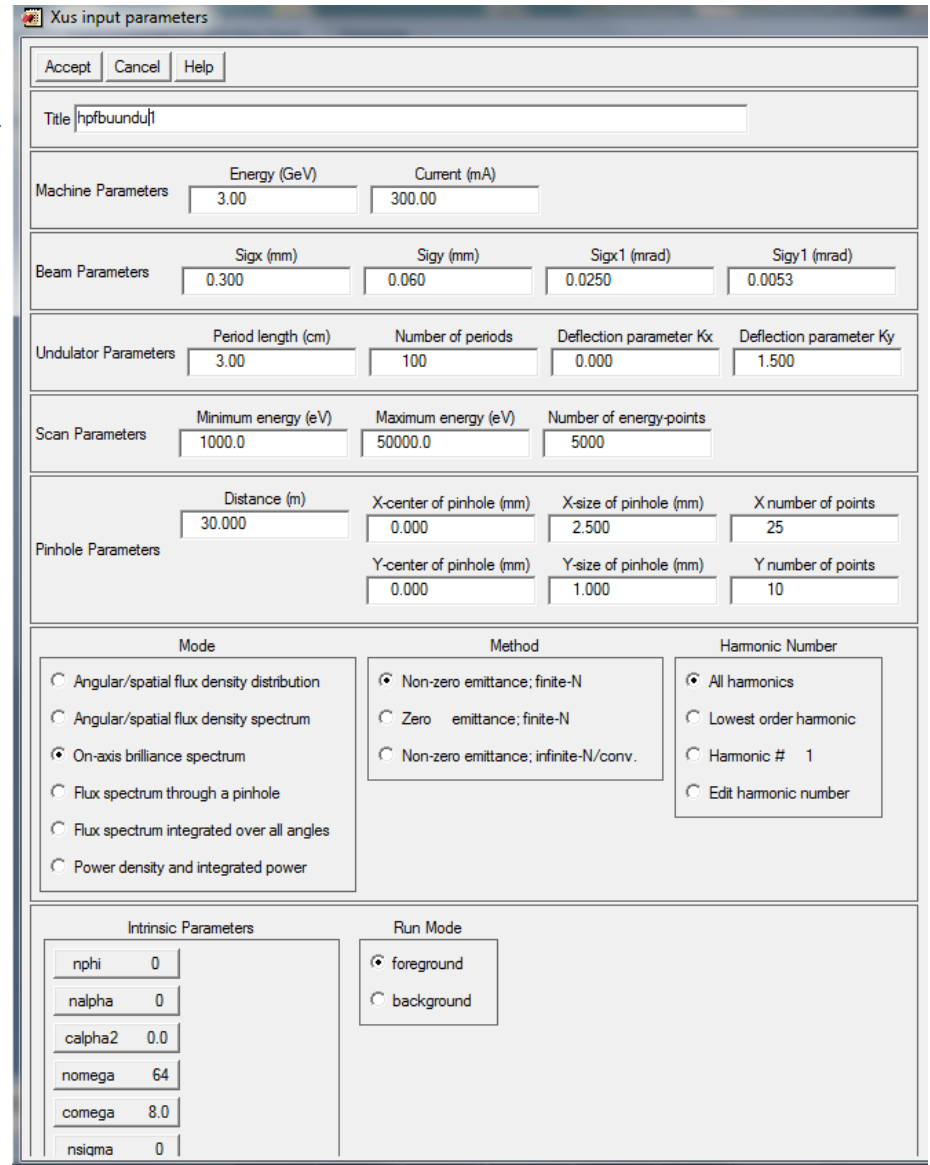
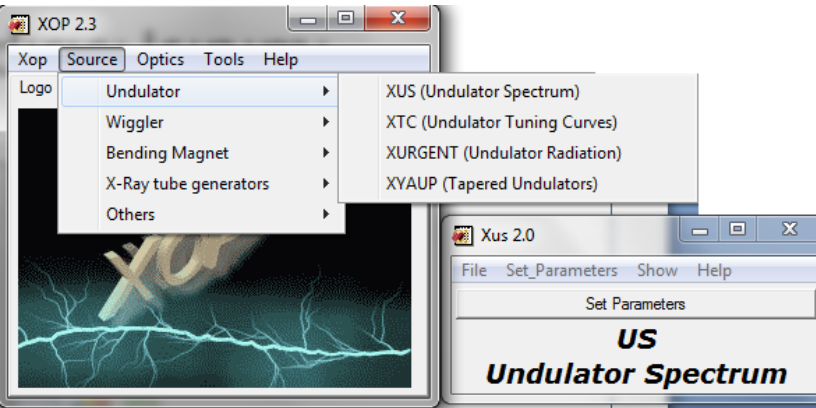
Aşağıda Verilen Hızlandırıcıların Eğici Magnetlerinden elde edilecek ışınımın

- Maksimum akıyı
- Tüm enerji bölgesinde yayınlanacak toplam gücü
- Kritik enerjilerini belirleyerek tabloyu doldurun

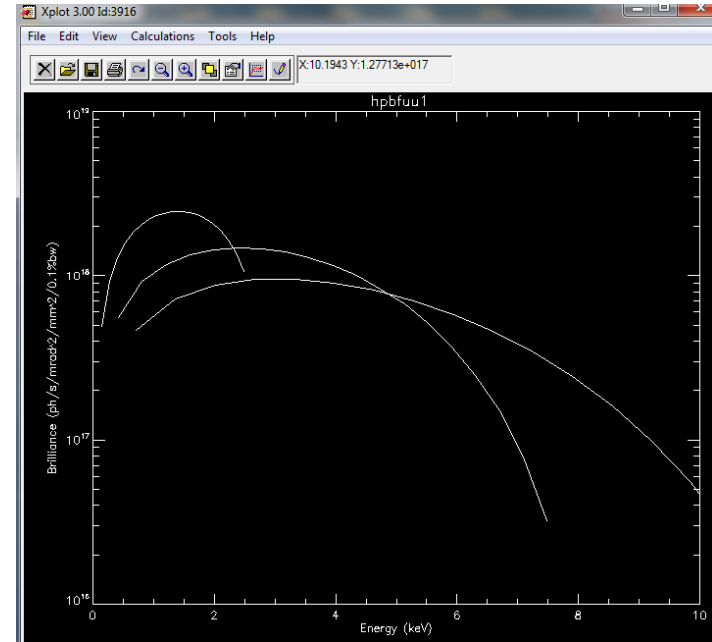
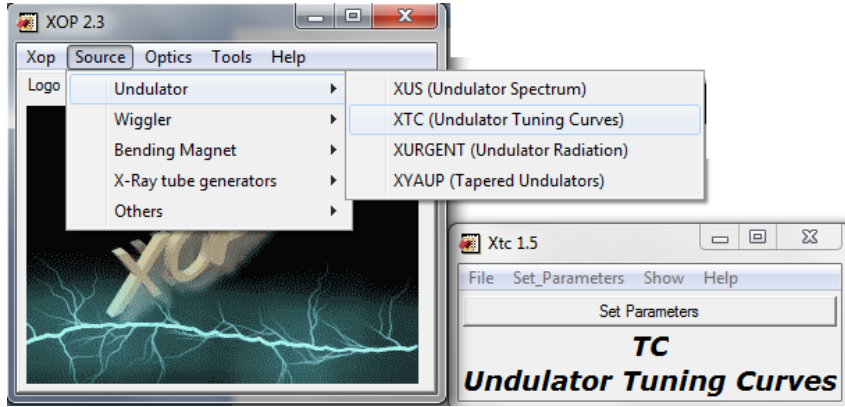


| Facility | E [GeV] | I [mA] | B [T]/R[m] | Ec [eV] | i (Flux) | ii (Total Power [W]) |
|----------|---------|--------|-------------------------|---------|----------|----------------------|
| ESRF | 6.04 | 200 | 0.8/ 25.2 | | | |
| Elettra | 2 | 300 | 1.2/ 5.56 | | | |
| LNLS | 1.37 | 175 | 1.67/ 2.74 | | | |
| SLS | 2.4 | 400 | 1.45 & 5/ 5.52 & 1.6 | | | |
| APS | 7 | 100 | 0.6/ 38.9 | | | |
| NSLS | 2.58 | 500 | 0.77/ 11.2 | | | |
| SSRL | 3 | 100 | 1.22/ 8.20 | | | |

Salıncı Işınımı



K Bağımlılığı



The image shows the 'Xtc input parameters' dialog box. It has buttons for 'Accept', 'Cancel', and 'Help'. The 'Title' field contains 'hpbfu1'. The parameters are organized into several sections:

- Machine Parameters:** Energy (GeV) = 3.00, Current (mA) = 100.00, Energy Spread = 0.00100.
- Beam Parameters:** Sigx (mm) = 0.300, Sigy (mm) = 0.060, Sigx1 (mrad) = 0.0250, Sigy1 (mrad) = 0.0053.
- Undulator Parameters:** Period length (cm) = 3.00, Number of periods = 100.
- Scan Parameters:** E1 minimum energy (eV) = 10.0, E1 maximum energy (eV) = 2500.0, Number of energy-points = 20, Minimum harmonic # = 1, Maximum harmonic # = 5, Harmonic step size = 2.
- Mode:** Regular planar undulator (selected), Helical undulator.
- Method:** Finite-N (selected), Infinite-N w/ convolution.
- Run Mode:** foreground (selected), background.
- Optional Output:** Save K-value/power? (checked).
- Intrinsic NEKS:** 100.

Katılımınızdan Dolayı Teşekkürler