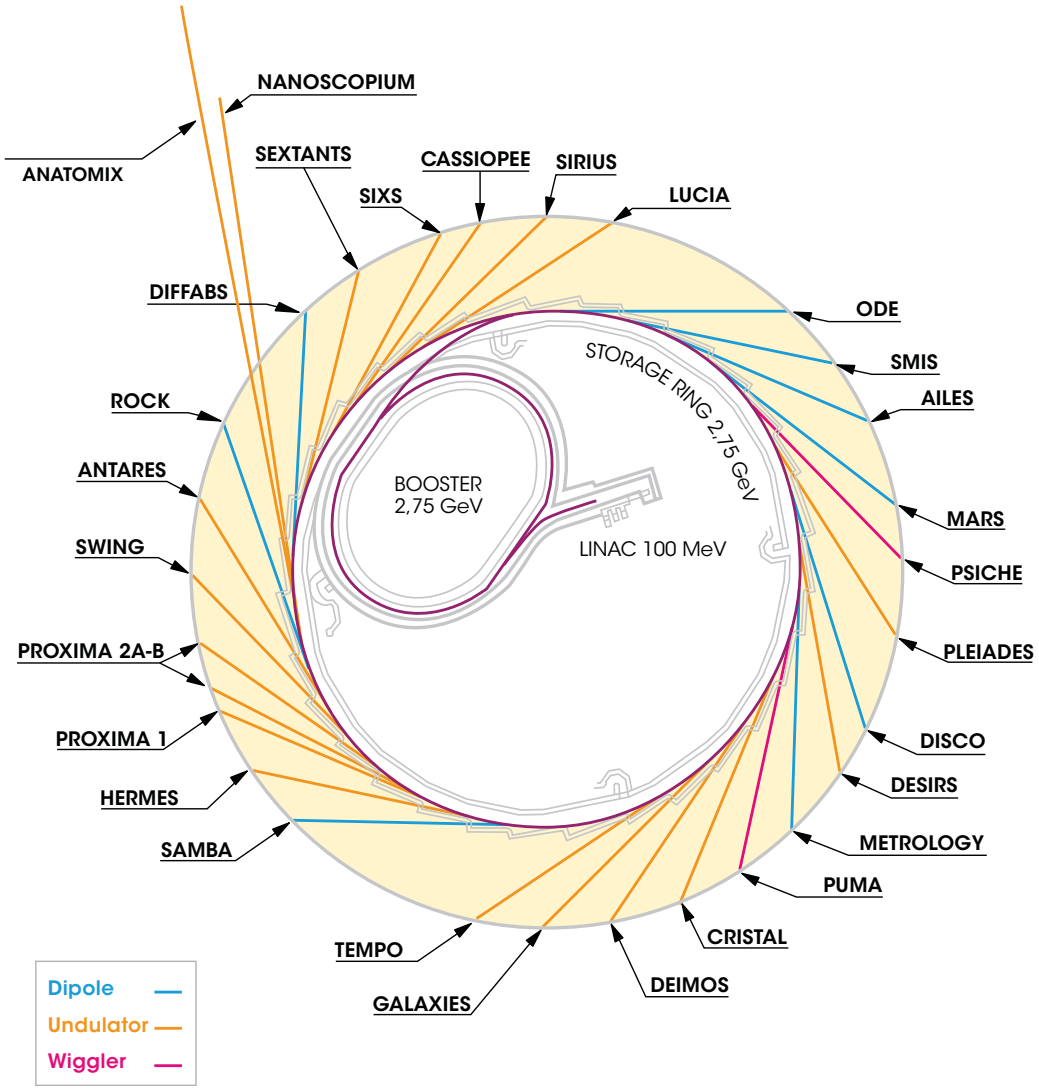
PANORAMA

The SOLEIL beamlines

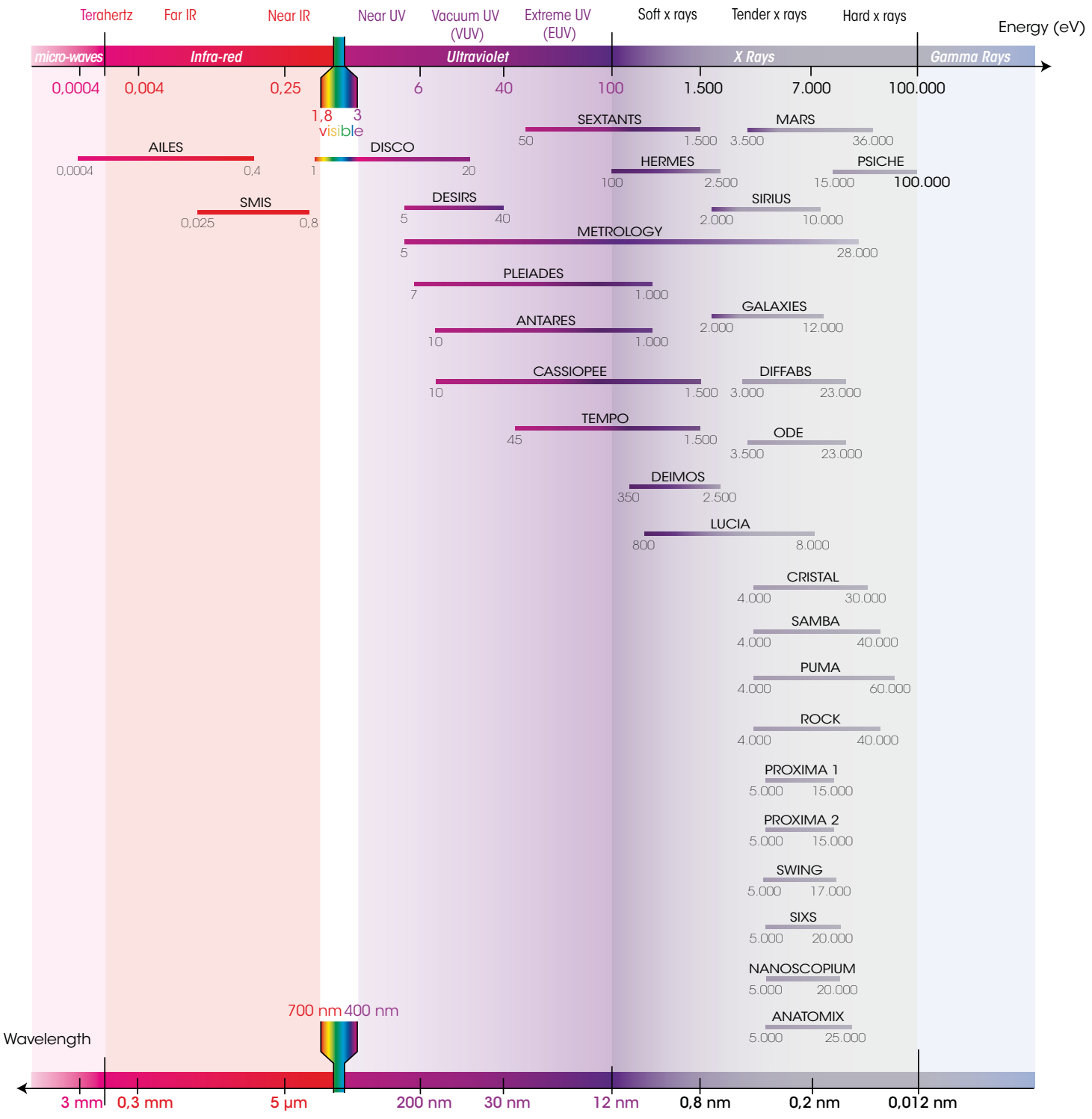
At SOLEIL, the beamlines provide access to one of the broadest energy ranges of all existing synchrotrons.



Fluo : fluorescence spectroscopy
IR: infrared
P&T : pressure and temperature
SAXS: small angle x-ray scattering
THz: terahertz
UV, VUV: ultraviolets, vacuum UV (high energy UV)
XAS: x-ray absorption spectroscopy
XMCD/XMLD : x-ray magnetic circular/linear dichroism
XPS: x-ray photoelectron spectroscopy
XRD: x-ray diffraction

- LUCIA: XAS, X microscopy, X fluo
- ODE: XAS (dispersive), XMCD
- SMIS: IR microscopy, IR spectroscopy
- AILES: IR &THz spectroscopy
- MARS: XAS, X fluo, XRD, SAXS – on radioactive samples
- PSICHE : XRD, tomography (absorption) - high P&T
- PLEIADES: XPS, VUV-soft x-ray absorption
- DISCO : UV-visible microscopy, UV spectroscopy, UV fluo, UV dichroism
- DESIRS: UV-VUV absorption, VUV dichroism
- METROLOGIE: scattering, XRD
- PUMA: XAS, XRD, X microscopy, tomography, X fluo
- CRISTAL: XRD – condensed matter
- DEIMOS: XMCD
- GALAXIES: inelastic x-ray scattering, hard XPS
- TEMPO: XAS, time-resolved XPS, XMCD / XMLD
- SAMBA: XAS, Raman, UV-visible absorption
- HERMES: soft x-ray microscopy, XPS
- PROXIMA1: XRD - biocristallography
- PROXIMA2: XRD – biocristallography
- SWING: SAXS
- ANTARES: XAS, microscopy, angle-resolved XPS, nm scale
- ROCK: XAS
- DIFFABS: XRD, XAS, X fluo
- ANATOMIX: tomography (phase contrast), X microscopy, nm scale
- NANOSCOPIUM : XAS, X fluo, X microscopy, nm scale
- SEXTANTS: XAS, XRD, resonant x-ray scattering
- SIXS: SAXS & XRD – surfaces & interfaces
- CASSIOPEE: XAS, angle, energy, spin-resolved XPS
- SIRIUS: grazing incidence XRD & SAXS, X fluo

10 years


Terahertz
Far IR
Near IR
Near UV
Vacuum UV (VUV)
Extreme UV (EUV)
Soft x rays
Tender x rays
Hard x rays
Energy (eV)
micro-waves
Infra-red
Ultraviolet
X Rays
Gamma Rays
0,0004
0,004
0,25
1,8
3
visible
6
40
100
1.500
7.000
100.000
SEXTANTS
50
1.500
MARS
3.500
36.000
AILES
0,0004
0,4
DISCO
1
20
HERMES
100
2.500
PSICHE
15.000
100.000
SMIS
0,025
0,8
DESIRS
5
40
SIRIUS
2.000
10.000
METROLOGY
5
28.000
PLEIADES
7
1.000
GALAXIES
2.000
12.000
ANTARES
10
1.000
CASSIOPEE
10
1.500
DIFFABS
3.000
23.000
TEMPO
45
1.500
ODE
3.500
23.000
DEIMOS
350
2.500
LUCIA
800
8.000
CRISTAL
4.000
30.000
SAMBA
4.000
40.000
PUMA
4.000
60.000
ROCK
4.000
40.000
PROXIMA 1
5.000
15.000
PROXIMA 2
5.000
15.000
SWING
5.000
17.000
SIXS
5.000
20.000
NANOSCOPIUM
5.000
20.000
ANATOMIX
5.000
25.000
700 nm
400 nm
Wavelength
3 mm
0,3 mm
5 µm
200 nm
30 nm
12 nm
0,8 nm
0,2 nm
0,012 nm