Proton and Neutron Knowledge Organisation System

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Table of Content

Introduction

This ontology describes various neutron and synchrotron facilities from all over Europe, with information regarding their instruments and techniques used.

Classes

back scattering spectrometer decommissioned dichroism diffraction energy level value partition facility fluorescence luminescence free electron laser gamma ray spectrometer high energy high pressure high resolution high resolution spectrometer imaging imaging instrument Instrument large scale diffractometer laue single diffractometer light s a l s/ l s low engergy low pressure low resolution luminescence m x instrument medium energy medium pressure medium resolution microscope microscopy muon source muon spectrometer neutron diffraction neutron diffractometer neutron interferometer neutron reflectometry neutron source neutron spectrometer neutron spectroscopy nuclear particle physics operational photon source power diffractometer pressure level value partition proton accelerator quasi laue diffractometer

reflectometer reflectometry resolution level value partition s a n s instrument scanning transmission x ray microscope scattering single crystal diffractometer small angle neutron scattering small angle x ray scattering spectrometer spectroscopic photoemission and photoemission electron microscope spectroscopy spin echo s a n s spin echo spectrometer status value partition synchrotron technique test instrument three axis spectrometer time of flight spectrometer tomography under construction under proposal x ray diffraction x ray imaging x ray reflectometry x ray spectroscopy

back scattering spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#BackScatteringSpectrometer

has super-classes

neutron spectrometer[c]

has members

i n10[ni]

decommissioned[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Decommissioned

has super-classes

status value partition[c]

has members

decommissioned[ni]

is disjoint with

operational[c], under construction[c], under proposal[c]

is also defined as

named individual

dichroism[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Dichroism

has super-classes

x ray spectroscopy[c]

has members

x m l d[ni], x mchi d[ni], x n c d[ni], x n l d[ni], x ray linear dichroism[ni], x ray magnetic linear dichroism[ni], x ray magnetochiral dichroism[ni], x ray natural circular dichroism[ni], x ray natural linear dichroism[ni], x raymagnetochiral dichroism[ni]

is also defined as

named individual

diffraction[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Diffraction

has super-classes

technique[c]

has sub-classes

neutron diffraction[c], x ray diffraction[c]

has members

coherent imaging diffraction[ni], enhanced imaging diffraction[ni], imaging diffraction[ni], p d[ni], x p d[ni]

is also defined as

named individual

energy level value partition[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#EnergyLevelValuePartition

is equivalent to

high energy[c] **or** low engergy[c] **or** medium energy[c]

has super-classes

value partition[c]

has sub-classes

high energy[c], low engergy[c], medium energy[c]

facility[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Facility

has super-classes

thing[c]

has sub-classes

free electron laser[c], muon source[c], neutron source[c], photon source[c], proton accelerator[c], synchrotron[c]

is in domain of

has instrument[op], uses file format[op]

is in range of

in facility[op]

has members

d e s y[ni], elettra sincrotrone trieste[ni], h z b[ni], helmholtz zentrum berlin[ni], p s i[ni]

is disjoint with

technique[c]

fluorescence luminescence[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#FluorescenceLuminescence

has super-classes

luminescence[c]

has members

fluorescence spectroscopy[ni], micro x ray fluorescence[ni], x ray excited optical luminescence[ni], x ray fluorescence[ni]

is also defined as

named individual

free electron laser[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#FreeElectronLaser

has super-classes

facility[c]

has members

f e r m i[ni], f l a s h[ni]

gamma ray spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#GammaRaySpectrometer

has super-classes

spectrometer[c]

has members

p n3[ni]

high energy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#HighEnergy

has super-classes

energy level value partition[c]

has members

high energy[ni]

is disjoint with

low engergy[c], medium energy[c]

is also defined as

named individual

high pressure[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#HighPressure

has super-classes

pressure level value partition[c]

has members

high pressure[ni]

is disjoint with

low pressure[c], medium pressure[c]

is also defined as

named individual

high resolution[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#HighResolution

has super-classes

resolution level value partition[c]

has members

high resolution[ni]

is disjoint with

low resolution[c], medium resolution[c]

is also defined as

named individual

high resolution spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#HighResolutionSpectrometer

is equivalent to

spectrometer[c] **and** (has resolution level[op] **some** high resolution[c])

imaging[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Imaging

has super-classes

technique[c]

has sub-classes

microscopy[c], tomography[c], x ray imaging[c]

has members

absorption contrast imaging[ni], holography[ni], phase contrast imaging[ni], photoemission electron microscopy[ni], scanned probe imaging[ni]

is also defined as

named individual

imaging instrument[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#ImagingInstrument

is equivalent to

Instrument[c] **and** (supports technique[op] **some** imaging[c])

has super-classes

Instrument[c]

Instrument[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Instrument

is equivalent to

in facility[op] **some** facility[c]

supports technique[op] **some** technique[c]

has sub-classes

imaging instrument[c], m x instrument[c], microscope[c], muon spectrometer[c], neutron diffractometer[c], neutron interferometer[c], nuclear particle physics[c], reflectometer[c], s a n s instrument[c], spectrometer[c], test instrument[c]

is in domain of

in facility[op], supports technique[op]

is in range of

has instrument[op], technique of[op]

has members

P05[ni], b a mline[ni], b l beamline[ni], b m28[ni], b16[ni], b21[ni], b8[ni], ci po[ni], gas phase beamline[ni], i d02[ni], i07[ni], i12[ni], i13[ni], i15[ni], i21[ni], i23[ni], l u c i a[ni], p04[ni], r g b l dipole[ni], r o c k[ni], reflectometer[ni], s a n s i[ni], s a n s instrument[ni], single crystal diffractometer[ni], the high energy materials science beamlineof h z g[ni], three axis spectrometer[ni], thz beamline[ni], time of flight spectrometer[ni], v3[ni], variable polarization x u v beamline[ni]

large scale diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LargeScaleDiffractometer

has super-classes

neutron diffractometer[c]

has members

d11[ni], d16[ni], d22[ni], d33[ni], l a d i i i i[ni]

laue single diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LaueSingleDiffractometer

has super-classes

neutron diffractometer[c]

has members

c y c l o p s[ni]

light s a l s/ l s[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LightSALS/LS

has super-classes

scattering[c]

low engergy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LowEngergy

has super-classes

energy level value partition[c]

has members

low energy[ni]

is disjoint with

high energy[c], medium energy[c]

low pressure[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LowPressure

has super-classes

pressure level value partition[c]

has members

low pressure[ni]

is disjoint with

high pressure[c], medium pressure[c]

is also defined as

named individual

low resolution[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#LowResolution

has super-classes

resolution level value partition[c]

has members

low resolution[ni]

is disjoint with

high resolution[c], medium resolution[c]

is also defined as

named individual

luminescence[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Luminescence

has super-classes

technique[c]

has sub-classes

fluorescence luminescence[c]

has members

fluorescence tomography[ni]

is also defined as

named individual

m x instrument[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MXInstrument

has super-classes

Instrument[c]

has members

I02[ni], i03[ni], i04[ni], i04 1[ni], i24[ni]

medium energy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MediumEnergy

has super-classes

energy level value partition[c]

has members

medium engergy[ni]

is disjoint with

high energy[c], low engergy[c]

medium pressure[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MediumPressure

has super-classes

pressure level value partition[c]

has members

medium pressure[ni]

is disjoint with

high pressure[c], low pressure[c]

is also defined as

named individual

medium resolution[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MediumResolution

has super-classes

resolution level value partition[c]

has members

medium resolution[ni]

is disjoint with

high resolution[c], low resolution[c]

is also defined as

named individual

microscope[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Microscope

has super-classes

Instrument[c]

has sub-classes

scanning transmission x ray microscope[c], spectroscopic photoemission and photoemission electron microscope[c]

has members

scanning photoelectron microscope[ni]

microscopy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Microscopy

has super-classes

imaging[c]

has members

electron microscopy[ni], scanning angle resolved photoemission spectromicroscopy[ni], scanning photoelectron microscopy[ni], scanning transmission x ray microscopy[ni], tomographic microscopy with c r l s[ni], x ray microscopy[ni], x ray photoemission microscopy[ni], x ray scanning microscopy[ni]

is also defined as

named individual

muon source[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MuonSource

has super-classes

facility[c]

has members

su s[ni]

muon spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#MuonSpectrometer

has super-classes

Instrument[c]

has members

a r g u s[ni], e m u[ni], h i f i[ni], m u s r[ni]

neutron diffraction[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronDiffraction

has super-classes

diffraction[c]

has members

high resolution powder diffraction[ni], powder diffraction[ni], single crystal diffraction[ni], time of flight small angle neutron diffraction[ni]

is also defined as

named individual

neutron diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronDiffractometer

is equivalent to

Instrument[c] **and** (supports technique[op] **some** neutron diffraction[c])

has super-classes

Instrument[c]

has sub-classes

large_scale_diffractometer[c], laue_single_diffractometer[c], power_diffractometer[c], quasi laue diffractometer[c], single crystal diffractometer[c]

has members

BL04[ni], d m c[ni], e n g i n x[ni], e2[ni], e6[ni], e9[ni], g e m[ni], i n e s[ni], n i m r o d[ni], p e a r l[ni], p o l a r i s[ni], r o t a x[ni], s a n d a l s[ni], s x d[ni], v1[ni], v15[ni], w i s h[ni]

neutron interferometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronInterferometer

has super-classes

Instrument[c]

has members

s18[ni]

neutron reflectometry[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronReflectometry

has super-classes

reflectometry[c]

has members

polarised neutron reflectivity[ni]

is also defined as

named individual

neutron source[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronSource

has super-classes

facility[c]

has members

b e r i i[ni], i l l[ni], i s i s[ni], j c n s[ni], s i n q[ni]

neutron spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronSpectrometer

has super-classes

spectrometer[c]

has sub-classes

back scattering spectrometer[c], spin echo spectrometer[c], three axis spectrometer[c], time of flight spectrometer[c]

has members

i n13[ni], i n16 b[ni], i r i s[ni], l e t[ni], m a p s[ni], m a r i[ni], m e r l i n[ni], o s i r i s[ni], t o s c a[ni], v e s u v i o[ni]

neutron spectroscopy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NeutronSpectroscopy

has super-classes

spectroscopy[c]

has members

elastic neutron scattering spectroscopy[ni], inelastic neutron scattering spectroscopy[ni], mass separator spectroscopy[ni], three axis spectroscopy[ni], timeof flight inverted geometry crystal analyser spectroscopy[ni], to f spectroscopy[ni]

is also defined as

named individual

nuclear particle physics[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#NuclearParticlePhysics

has super-classes

Instrument[c]

has members

cryo d e m[ni], g r a n i t[ni], p f1 b[ni], p f2[ni], p n1[ni], p n3[ni]

operational[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Operational

has super-classes

status value partition[c]

has members

operational[ni]

is disjoint with

decommissioned[c], under construction[c], under proposal[c]

is also defined as

named individual

photon source[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#PhotonSource

has super-classes

facility[c]

has members

b e s s y i i[ni], s l s[ni]

power diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#PowerDiffractometer

has super-classes

neutron diffractometer[c]

supports technique[op] **value** powder diffraction

has members

d1 b[ni], d18[ni], d2 b[ni], d20[ni], d4[ni], s a l s a[ni]

pressure level value partition[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#PressureLevelValuePartition

is equivalent to

high pressure[c] **or** low pressure[c] **or** medium pressure[c]

has super-classes

value partition[c]

has sub-classes

high pressure[c], low pressure[c], medium pressure[c]

is in range of

has pressure level[op]

proton accelerator[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#ProtonAccelerator

has super-classes

facility[c]

has members

h i p a[ni]

quasi laue diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Quasi-LaueDiffractometer

has super-classes

neutron diffractometer[c]

has members

l a d i i i i[ni]

reflectometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Reflectometer

has super-classes

Instrument[c]

has members

c r i s p[ni], d17[ni], f i g a r o[ni], i n t e r[ni], o f f s p e c[ni], p o l r e f[ni], s u r f[ni], super a d a m[ni]

is also defined as

named individual

reflectometry[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Reflectometry

has super-classes

technique[c]

has sub-classes

neutron reflectometry[c], x ray reflectometry[c]

has members

polarised neutron reflectometry[ni]

is also defined as

named individual

resolution level value partition[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#ResolutionLevelValuePartition

is equivalent to

high resolution[c] **or** low resolution[c] **or** medium resolution[c]

has super-classes

value partition[c]

has sub-classes

high resolution[c], low resolution[c], medium resolution[c]

is in range of

has resolution level[op]

s a n s instrument[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SANSInstrument

has super-classes

Instrument[c]

has members

l o q[ni], n i m r o d[ni], s a n d a l s[ni], s a n s2 d[ni]

is also defined as

named individual

scanning transmission x ray microscope[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#ScanningTransmissionX-rayMicroscope

has super-classes

microscope[c]

has members

P11[ni]

scattering[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Scattering

has super-classes

technique[c]

has sub-classes

light s a l s/ l s[c], small angle neutron scattering[c], small angle x ray scattering[c]

has members

grazing small angle x ray scattering[ni], microfocus x ray scattering[ni], nanofocus x ray scattering[ni], resonant scattering[ni], resonant x ray scattering[ni], small angle inelastic scattering[ni], total scattering[ni], w a x s[ni], wide angle x ray s a x s[ni]

is also defined as

named individual

single crystal diffractometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SingleCrystalDiffractometer

has super-classes

neutron diffractometer[c]

has members

c y c l o p s[ni], d10[ni], d19[ni], d23[ni], d3[ni], d9[ni], orient express[ni], s x d[ni], v i v a l d i[ni]

is also defined as

named individual

small angle neutron scattering[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SmallAngleNeutronScattering

has super-classes

scattering[c]

has sub-classes

spin echo s a n s[c]

has members

a s a x s[ni], anomalous small angle x ray scattering[ni], grazing incident s a n s[ni], time of flight s a n s[ni], v s a n s[ni]

is also defined as

named individual

small angle x ray scattering[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SmallAngleX-RayScattering

has super-classes

scattering[c]

has members

diffuse x ray s a x s[ni], grazing incident x ray s a x s[ni], inelastic x ray s a x s[ni], s a x s[ni], small angle x ray scattering[ni], soft x ray s a x[ni], ultra x ray s a x[ni]

is same as

s a x s

is also defined as

named individual

spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Spectrometer

has super-classes

Instrument[c]

has sub-classes

gamma ray spectrometer[c], neutron spectrometer[c]

has members

p n1[ni], spectro microscopy beamline[ni]

spectroscopic photoemission and photoemission electron microscope[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SpectroscopicPhotoemissionAndPhotoemissionElectronMicroscope

has super-classes

microscope[c]

has members

NanospectroscopyBeamline[ni]

spectroscopy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Spectroscopy

has super-classes

technique[c]

has sub-classes

neutron spectroscopy[c], x ray spectroscopy[c]

has members

absorption spectroscopy[ni], electron spectroscopy[ni], gamma spectroscopy[ni], h r x p s[ni], high resolutino photo electron spectroscopy[ni], high resolution core level photoemission spectroscopy[ni], infrared micro spectroscopy[ni], muon spectroscopy[ni], optical spectroscopy[ni], u v and visible circular dichroism spectroscopy[ni], uv vuv spectroscopy[ni], x ray spectroscopy[ni]

is also defined as

named individual

spin echo s a n s[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#SpinEchoSANS

has super-classes

small angle neutron scattering[c]

has members

quasi elastic neutron spin echo scattering[ni], spin echo resolved grazing incidence scattering[ni], spin echo small angle neutron scattering[ni]

is also defined as

named individual

spin echo spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Spin-echoSpectrometer

has super-classes

neutron spectrometer[c]

has members

i n11[ni], i n15[ni]

status value partition[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#StatusValuePartition

is equivalent to

decommissioned[c] **or** operational[c] **or** under construction[c] **or** under proposal[c]

has super-classes

value partition[c]

has sub-classes

decommissioned[c], operational[c], under construction[c], under proposal[c]

is in range of

has operation status[op]

synchrotron[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Synchrotron

has super-classes

facility[c]

has members

a l b a[ni], d i a m o n d[ni], d l s[ni], e s r f[ni], elettra[ni], p e t r a i i i[ni], s l s[ni], s o l e i l[ni]

technique[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Technique

has super-classes

in facility[op] **some** facility[c]

supports technique[op] **some** technique[c]

has sub-classes

diffraction[c], imaging[c], luminescence[c], reflectometry[c], scattering[c], spectroscopy[c]

is in domain of

technique of[op]

is in range of

supports technique[op]

has members

a r p e s[ni], angular dispersive x ray diffraction[ni], anomalous diffractiopn[ni], anomalous scattering[ni], anomalous surface x ray scattering[ni], back scattering spectroscopy[ni], c d i[ni], c i x[ni], c t r[ni], coherent diffraction imaging[ni], coherent imaging[ni], coherent radiation[ni], coherent scattering imaging[ni], coherent small angle x ray scattering[ni], compton

scattering[ni], cosmic neutron radiation[ni], crystal truncation rods[ni], d a f s[ni], d e i[ni], d s c[ni], deep x ray lithography[ni], dichroism[ni], differential scanning calorimetry[ni], diffraction[ni], diffraction anomalous fine structure[ni], diffraction contrast tomography[ni], diffraction enhanced imaging[ni], diffraction imaging[ni], diffuse x ray scattering[ni], dispersive x ray diffraction[ni], e d d i[ni], e u v i l[ni], e x a f s[ni], elastic scattering[ni], energy dispersive diffraction[ni], extended x ray absorption fine structure[ni], extreme ultraviolet interference lithography[ni], f t h[ni], f t i r[ni], fermi surface mapping[ni], fluorescence luminescence[ni], fourier transform holography[ni], fourier transform infrared microscopy[ni], fourier transform infrared spectroscopy[ni], full field x ray imaging[ni], g i d[ni], g i s a x s[ni], g i x d[ni], grazing incidence diffraction[ni], grazing incidence small angle scattering[ni], h a x p e s[ni], h e r f d[ni], h i k e[ni], high angular and high spatial resolution diffraction[ni], high energy resolution fluorescence detection[ni], high kinetic energy photoelectron spectroscopy[ni], humidity control[ni], i r microscopy[ni], i r spectroscopy[ni], i x s[ni], imaging[ni], imaging x ray photoelectron spectroscopy[ni], in situ magnetron sputtering[ni], in situ spectroscopy[ni], in situ surface diffraction[ni], in situ x ray diffraction[ni], inelastic neutron scattering spectroscopy[ni], inelastic x ray s a x s[ni], inelastic x ray scattering[ni], infra red spectroscopy[ni], infrared[ni], infrared absorption spectroscopy[ni], k edge subtraction imaging[ni], laminography[ni], laue diffraction[ni], litho e u v[ni], luminescence[ni], m a d[ni], m o k e[ni], macromolecular crystallography[ni], magnetic optical kerr effect[ni], magnetic spectroscopy[ni], mass spectrometry[ni], micro beam[ni], micro powder diffraction[ni], micro tomography[ni], micro x a n e s[ni], micro x a s[ni], micro x r f[ni], micro x ray absorption near edge structure[ni], micro x ray fluorescence[ni], microbeam radiation therapy[ni], microcrystallography[ni], microforcus spectroscopy[ni], microscopy[ni], monochromatic imaging[ni], multi wavelength anomalous dispersion[ni], muon spin spectroscopy[ni], n e x a f s[ni], n i x s[ni], n r s[ni], nano a r p e s[ni], near edge x ray absorption fine structure spectroscopy[ni], neutron autoradiography[ni], neutron depolarisation[ni], neutron diffraction[ni], neutron interferometry[ni], neutron reflectometry[ni], neutron scattering[ni], neutron spectroscopy[ni], neutron transmission radiography[ni], non crystalline diffraction[ni], non resonantinelastic x ray scattering[ni], nuclear resonance[ni], nuclear resonant scattering[ni], p e e m[ni], pair distribution function[ni], pair distribution function analysis[ni], photo electron spectroscopy[ni], photoemission spectroscopy[ni], pink beam imaging[ni], polarisation analysis[ni], quasielastic scattering[ni], r e s p e s[ni], r f m s r[ni], r i x s[ni], radio frequency muon spin resonance[ni], radiography[ni], raman spectroscopy[ni], reflectometry[ni], resonant absorption[ni], resonant inelastic soft x ray scattering[ni], resonant photoemission[ni], resonant spectroscopy[ni], s a r p e s[ni], s d[ni], s p m[ni], s t m[ni], s t x m[ni], s x r d[ni], scanned energyand angular photoelectron diffraction[ni], scanning angle resolved photoemission spectromicroscopy[ni], scanning probe microscopy[ni], scanning transmission x ray microscopy[ni], scanning tunnelling microscopy[ni], scanning x ray fluorescence[ni], scattering[ni], single crystal neutron diffraction[ni], small angle neutron scattering[ni], small angle x ray scattering[ni], small molecule diffraction[ni], soft x ray diffraction[ni], soft x ray resonant scattering[ni], spectromicroscopy[ni], spectronanoscopy[ni], spectroscopy[ni], spin and angle resolved photoelectron spectroscopy[ni], spin echo s a n s[ni], spin echo spectroscopy[ni], spin resolved photoemission[ni], stereotaxic synchrotron radiation therapy[ni], strain analysis[ni], surface x ray diffraction[ni], time of flight diffraction[ni], time of flight spectroscopy[ni], to f spectroscopy[ni], tomographic microscopy with c r l s[ni], tomography[ni], topography[ni], triple axis spectroscopy[ni], u s a n s[ni], u s a x s[ni], u v soft x

ray[ni], u v visible spectroscopy[ni], ultra high resolution small angle neutron scattering[ni], ultra small angle scattering[ni], ultra small angle x ray scattering[ni], v s a n s[ni], v u v photoemission[ni], v u v spectroscopy[ni], vacuum ultraviolet radiation[ni], very small angle neutron scattering[ni], wide angle scattering[ni], wide angle x ray scattering[ni], x a f s[ni], x a n e s[ni], x a s[ni], x d m r[ni], x e s[ni], x m c d[ni], x m l d[ni], x mchi d[ni], x n c d[ni], x n l d[ni], x p c s[ni], x p s[ni], x r d[ni], x r f[ni], x r r[ni], x ray absorption fine structure[ni], x ray absorption near edge structure[ni], x ray detected magnetic resonance[ni], x ray diffraction[ni], x ray emission spectroscopy[ni], x ray imaging[ni], x ray lithography[ni], x ray magnetic circular dichroism[ni], x ray photoemission microscopy[ni], x ray photon correlation spectroscopy[ni], x ray raman scattering[ni], x ray reflectometry[ni], x ray scanning microscopy[ni], x ray scattering[ni]

is disjoint with

facility[c]

test instrument[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#TestInstrument

has super-classes

Instrument[c]

has members

i n3[ni]

three axis spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#ThreeAxisSpectrometer

has super-classes

neutron spectrometer[c]

has members

i n1[ni], i n12[ni], i n14[ni], i n20[ni], i n22[ni], i n8[ni]

is also defined as

named individual

time of flight spectrometer[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Time-of-flightSpectrometer

has super-classes

neutron spectrometer[c]

has members

b r i s p[ni], d7[ni], f i g a r o[ni], i n4 c[ni], i n5[ni], i n6[ni]

is also defined as

named individual

tomography[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#Tomography

has super-classes

imaging[c]

has members

fluorescence tomography[ni]

is also defined as

named individual

under construction[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#UnderConstruction

has super-classes

status value partition[c]

has members

under construction[ni]

is disjoint with

decommissioned[c], operational[c], under proposal[c]

is also defined as

named individual

under proposal[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#UnderProposal

has super-classes

status value partition[c]

has members

under proposal[ni]

is disjoint with

decommissioned[c], operational[c], under construction[c]

is also defined as

named individual

x ray diffraction[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#X-RayDiffraction

has super-classes

diffraction[c]

has members

grazing incidence x ray diffraction[ni], photoelectron diffraction[ni], powder diffraction[ni], resonant diffraction[ni], single crystal diffraction[ni], small angle diffraction[ni], soft diffraction[ni], surface diffraction[ni], x ray photoelectron diffraction[ni], x ray powder diffaction[ni]

is also defined as
named individual

x ray imaging[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#X-RayImaging

has super-classes
imaging[c]

has members
miccro g i s a x s tomography[ni], micro s a x s tomography[ni], scanning x ray fluorescence[ni], soft x ray imaging[ni], x ray diffraction imaging[ni]

is also defined as
named individual

x ray reflectometry[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#X-RayReflectometry

has super-classes
reflectometry[c]

has members
x r r x ray reflectivity[ni], x ray reflectivity[ni]

is also defined as
named individual

x ray spectroscopy[c]

back to ToC or Class ToC

IRI: http://www.purl.org/pankos#X-RaySpectroscopy

has super-classes
spectroscopy[c]

has sub-classes
dichroism[c]

has members
emmission x ray spectroscopy[ni], extended x ray absorption fine structure[ni], hard x ray photoelectron spectroscopy[ni], photon correlation x ray spectroscopy[ni], x ray absorption spectroscopy[ni], x ray magnetic circular dichroism[ni], x ray photon correlation spectroscopy[ni]

is also defined as
named individual

Object Properties

has instrument has operation status has pressure level has resolution level

in facility supports technique technique of uses file format

has instrument[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#hasInstrument

has characteristics: asymmetric

has super-properties
top object property
has domain
facility[c]
has range
Instrument[c]
is inverse of
in facility[op]

has operation status[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#hasOperationStatus

has characteristics: functional

has super-properties
top object property
has range
status value partition[c]

has pressure level[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#hasPressureLevel

has super-properties
top object property
has range
pressure level value partition[c]

has resolution level[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#hasResolutionLevel

has characteristics: functional

has range
resolution level value partition[c]

in facility[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#inFacility

has characteristics: asymmetric

has domain

Instrument[c]

has range

facility[c]

is inverse of

has instrument[op]

supports technique[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#supportsTechnique

has characteristics: asymmetric

has domain

Instrument[c]

has range

technique[c]

is inverse of

technique of[op]

technique of[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#techniqueOf

has characteristics: asymmetric

has domain

technique[c]

has range

Instrument[c]

is inverse of

supports technique[op]

uses file format[op]

back to ToC or Object Property ToC

IRI: http://www.purl.org/pankos#usesFileFormat

has domain

facility[c]

Annotation Properties

description note preferred name

description[ap]

back to ToC or Annotation Property ToC

IRI: http://purl.org/dc/elements/1.1/description

note[ap]

back to ToC or Annotation Property ToC

IRI: http://www.w3.org/2004/02/skos/core#note

preferred name[ap]

back to ToC or Annotation Property ToC

IRI: http://www.purl.org/pankos#preferredName

General Axioms

All Disjoint Classes

back to ToC

high energy[c], low engergy[c], medium energy[c]

All Disjoint Classes

back to ToC

high resolution[c], low resolution[c], medium resolution[c]

All Disjoint Classes

back to ToC

high pressure[c], low pressure[c], medium pressure[c]

All Disjoint Classes

back to ToC

decommissioned[c], operational[c], under construction[c], under proposal[c]

Namespace Declarations

back to ToC

default namespace
http://www.purl.org/pankos#

dc
http://purl.org/dc/elements/1.1/

owl
http://www.w3.org/2002/07/owl#

pankos
http://www.purl.org/pankos#

rdf
http://www.w3.org/1999/02/22-rdf-syntax-ns#

rdfs
http://www.w3.org/2000/01/rdf-schema#

skos
http://www.w3.org/2004/02/skos/core#

www-purl-org
http://www.purl.org/

xsd
http://www.w3.org/2001/XMLSchema#

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