Axel-probe 2.1.0.23

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Axel-probe Introduction

Axel Probe is designed as simulator of MotMaster2 application including the quantum (MOT) accelerometer. The main purpose is to test Axel Hub for communication, logging, visualizing and data processing abilities. The software provides:

- The simulation starts with generation of an acceleration pattern (repeatable). Then Axel Probe would simulate a signal which would come out of MotMaster2 and the MOT experiment and send that signal to Axel Hub
- A number behavioural patterns are available, as well as adding Gaussian noise and variety of simulated signal disturbances as amplitude variation, etc.
- In case of active feedback of Raman phase in order to follow the position of a fringe (from the atomic interferometer), Axel Probe will take into account the fed back Raman phase when the signal is simulated. For example: the PID algorithm (with pi flip) could be tested and optimized that way.
- Most of the intermediate and resulting value of calculation (simulation) are visible in charts and some of them in the communication log.

Namespace Index

2.1 Packages

Here are the packages with brief descriptions (if available):

Axel_probe	11
Axel probe::Properties	12

4 Namespace Index

Hierarchical Index

3.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

pplication	
Axel_probe::App	13
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pplicationSettingsBase	
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6 Hierarchical Index

Class Index

4.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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Interaction logic for App.xaml	13
Axel_probe.Kalman	
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Axel_probe::MainWindow	
Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings	
corresponding to some experimental conditions	14
Axel_probe.PID	
Under development	14
Axel_probe.ProbeEngine	
An calculating engine for generating a fringes patterns according simulated experimental condi-	
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Axel_probe::Properties::Resources	
A strongly-typed resource class, for looking up localized strings, etc	26
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File Index

5.1 File List

Here is a list of all files with brief descriptions:

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ProbeEngine.cs	29
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Namespace Documentation

6.1 Axel_probe Namespace Reference

Namespaces

· Properties

Classes

class App

Interaction logic for App.xaml

· class Kalman

Under development

· class MainWindow

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

class PID

Under development

class ProbeEngine

An calculating engine for generating a fringes patterns according simulated experimental conditions the engine runs by its timer and behaives similar to Axel-tilt its state evolve according to the set parameters (accel.; disturbances) and axel-probe queries the engine for its state OnChange event fires when the state is recalculated

Enumerations

enum RemoteMode {

RemoteMode.Disconnected, RemoteMode.Jumbo_Scan, RemoteMode.Jumbo_Repeat, RemoteMode.Simple_Scan, RemoteMode.Simple_Repeat, RemoteMode.Ready_To_Remote }

The current mode (group command) of incomming shots

6.1.1 Enumeration Type Documentation

6.1.1.1 RemoteMode

enum Axel_probe.RemoteMode [strong]

The current mode (group command) of incomming shots

Enumerator

Disconnected	
Jumbo_Scan	
Jumbo_Repeat	
Simple_Scan	
Simple_Repeat	
Ready_To_Remote	

Definition at line 22 of file ProbeEngine.cs.

6.2 Axel_probe::Properties Namespace Reference

Classes

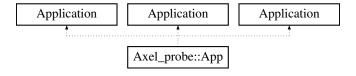
- class Resources
 - A strongly-typed resource class, for looking up localized strings, etc.
- class Settings

Class Documentation

7.1 Axel_probe::App Class Reference

Interaction logic for App.xaml

Inheritance diagram for Axel_probe::App:



7.1.1 Detailed Description

Interaction logic for App.xaml

App

Definition at line 14 of file App.xaml.cs.

The documentation for this class was generated from the following files:

- · App.xaml.cs
- App.g.cs
- App.g.i.cs

7.2 Axel_probe.Kalman Class Reference

Under development

7.2.1 Detailed Description

Under development

Definition at line 19 of file Kalman.cs.

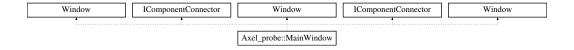
The documentation for this class was generated from the following file:

· Kalman.cs

7.3 Axel_probe::MainWindow Class Reference

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

Inheritance diagram for Axel probe::MainWindow:



7.3.1 Detailed Description

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

MainWindow

Interaction logic for MainWindow.xaml

Definition at line 32 of file MainWindow.xaml.cs.

The documentation for this class was generated from the following files:

- · MainWindow.xaml.cs
- · MainWindow.g.cs
- MainWindow.g.i.cs

7.4 Axel_probe.PID Class Reference

Under development

7.4.1 Detailed Description

Under development

Definition at line 12 of file Kalman.cs.

The documentation for this class was generated from the following file:

· Kalman.cs

7.5 Axel_probe.ProbeEngine Class Reference

An calculating engine for generating a fringes patterns according simulated experimental conditions the engine runs by its timer and behaives similar to Axel-tilt its state evolve according to the set parameters (accel.; disturbances) and axel-probe queries the engine for its state OnChange event fires when the state is recalculated

Public Member Functions

· void SaveParams ()

Save Params in json file (params.cfg)

void LoadParams ()

Load Params from json file (params.cfg)

• ProbeEngine ()

Class constructor

void Start (int dur=500)

Start simulation

• void Stop ()

Stop simulation

• void pauseSingle ()

While in pause mode, shoot a single shot by calling this

- delegate void ChangeHandler (Point newAccel)
- delegate void LogHandler (string txt, Color? clr=null)
- void LogEvent (string txt, Color? clr=null)
- Point Gauss ()

New acceleration point with optional noise by X and Y

• double acceleration (double pos)

Generates specific pattern with set params

double breathing ()

Simulates signal loosing contrast (various reassons) factor to multiply the fringes with

• Point fringesPoint (double scanPhase, double curAccel)

Individual for each point from the fringe

· double fringes (double curAccel)

(re)Generates the fringes series

• int getIfringe (double x)

Get index from phase in fringes series

• bool SingleShot (double A, int toAxis, ref MMexec mme)

Generates the simulated to photo diode signal to be send to Axel-hub

- void CancelScan ()
- · void DoScan (MMscan mms)

Generates scan series of shots by group MMexec envelope

- void CancelRepeat ()
- void SimpleRepeat (int cycles, string groupID)

Generate simple (initialted from here) repeat series of shots

Public Attributes

- Dictionary < string, double > bpps
 - behaviour patterns parameters pattern => 0 -> constant; 1 -> trapeze; 2 -> sine ampl [mg] accel. amplitude factor [mg/rad] step [%] percent from the pattern period time gap
- Dictionary< string, object > dps

disturbances - fringe noise and Y breathing simulating experimental conditions Xnoise - [mg] noise in accel. (fringe shifting) Ynoise - [%] Y noise in fringe signal XnoiselO - (bool) Xnoise switch YnoiselO - (bool) Ynoise switch Brth← Pattern - (int) Breathing pattern BrthApmpl - Breathing amplitude BrthPeriod - Breathing period BrthIO - (bool) Breathing switch

- Boolean LockParams = false
- RemoteMessaging remote = null
- ChartCollection < Point > srsFringes = null
- ListBox IboxNB = null
- ChartCollection < double > srsSignalN = null
- ChartCollection < double > srsSignalB = null
- RemoteMode remoteMode = RemoteMode.Disconnected
- Stopwatch stopWatch
- double contrPhase = -11
- int b4ConstrID = 0

Protected Member Functions

void ChangeEvent (Point newAccel)

Properties

```
    int axis [get, set]
        Axis mode -1 - old style; 0 - X; 1 - Y; 2 - X/Y
    double period [get]
        Time period of generated
    Boolean Enabled [get, set]
        One way to start/stop a simulation
```

• Boolean Pause [get, set]

Temporary pause the simulation

Events

- · ChangeHandler OnChange
- LogHandler OnLog

7.5.1 Detailed Description

An calculating engine for generating a fringes patterns according simulated experimental conditions the engine runs by its timer and behaives similar to Axel-tilt its state evolve according to the set parameters (accel.; disturbances) and axel-probe queries the engine for its state OnChange event fires when the state is recalculated

Definition at line 39 of file ProbeEngine.cs.

7.5.2 Constructor & Destructor Documentation

7.5.2.1 ProbeEngine()

```
Axel_probe.ProbeEngine.ProbeEngine ( )
```

Class constructor

Definition at line 146 of file ProbeEngine.cs.

7.5.3 Member Function Documentation

7.5.3.1 acceleration()

```
double Axel_probe.ProbeEngine.acceleration ( double pos )
```

Generates specific pattern with set params

Parameters

```
pos pos in current pattern [sec]
```

Returns

Definition at line 265 of file ProbeEngine.cs.

7.5.3.2 breathing()

```
double Axel_probe.ProbeEngine.breathing ( )
```

Simulates signal loosing contrast (various reassons) factor to multiply the fringes with

Returns

Definition at line 303 of file ProbeEngine.cs.

7.5.3.3 CancelRepeat()

```
void Axel_probe.ProbeEngine.CancelRepeat ( )
```

Definition at line 501 of file ProbeEngine.cs.

7.5.3.4 CancelScan()

```
void Axel_probe.ProbeEngine.CancelScan ( )
```

Definition at line 463 of file ProbeEngine.cs.

7.5.3.5 ChangeEvent()

Definition at line 214 of file ProbeEngine.cs.

7.5.3.6 ChangeHandler()

7.5.3.7 DoScan()

```
void Axel_probe.ProbeEngine.DoScan ( {\tt MMscan} \ {\it mms} \ )
```

Generates scan series of shots by group MMexec envelope

Parameters

mms group MMexec

Definition at line 468 of file ProbeEngine.cs.

7.5.3.8 fringes()

(re)Generates the fringes series

Parameters

Returns

accel with noise

Definition at line 331 of file ProbeEngine.cs.

7.5.3.9 fringesPoint()

Individual for each point from the fringe

Parameters

scanPhase	[rad]
curAccel	[mg]

Returns

result point

Definition at line 319 of file ProbeEngine.cs.

7.5.3.10 Gauss()

```
Point Axel_probe.ProbeEngine.Gauss ( )
```

New acceleration point with optional noise by X and Y

Returns

Definition at line 234 of file ProbeEngine.cs.

7.5.3.11 getIfringe()

```
int Axel_probe.ProbeEngine.getIfringe ( \label{eq:condition} \operatorname{double} \ x \ )
```

Get index from phase in fringes series

Parameters



Returns

Definition at line 351 of file ProbeEngine.cs.

7.5.3.12 LoadParams()

```
void Axel_probe.ProbeEngine.LoadParams ( )
```

Load Params from json file (params.cfg)

Definition at line 95 of file ProbeEngine.cs.

7.5.3.13 LogEvent()

Definition at line 224 of file ProbeEngine.cs.

7.5.3.14 LogHandler()

7.5.3.15 pauseSingle()

```
void Axel_probe.ProbeEngine.pauseSingle ( )
```

While in pause mode, shoot a single shot by calling this

Definition at line 204 of file ProbeEngine.cs.

7.5.3.16 SaveParams()

```
void Axel_probe.ProbeEngine.SaveParams ( )
```

Save Params in json file (params.cfg)

Definition at line 83 of file ProbeEngine.cs.

7.5.3.17 SimpleRepeat()

Generate simple (initialted from here) repeat series of shots

Parameters

cycles	Number of shots (-1 if continious)
groupID	

Definition at line 507 of file ProbeEngine.cs.

7.5.3.18 SingleShot()

Generates the simulated to photo diode signal to be send to Axel-hub

Example base data + some noise N2 Ntot B2 Btot Bg N2 Ntot B2 Btot Bg 1 5 1 3 0 3 5 1 3 0 NB2 NBtot NB2 NBtot 0 2 2 2

AA

1 -1

-					
Pa	ra	m	eı	re.	rs

curAccel

Returns

Definition at line 384 of file ProbeEngine.cs.

7.5.3.19 Start()

```
void Axel_probe.ProbeEngine.Start ( int dur = 500 )
```

Start simulation

Parameters

dur

Definition at line 167 of file ProbeEngine.cs.

7.5.3.20 Stop()

```
void Axel_probe.ProbeEngine.Stop ( )
```

Stop simulation

Definition at line 178 of file ProbeEngine.cs.

7.5.4 Member Data Documentation

7.5.4.1 b4ConstrID

```
int Axel_probe.ProbeEngine.b4ConstrID = 0
```

Definition at line 369 of file ProbeEngine.cs.

7.5.4.2 bpps

Dictionary<string, double> Axel_probe.ProbeEngine.bpps

behaviour patterns parameters pattern => 0 -> constant; 1 -> trapeze; 2 -> sine ampl [mg] - accel. amplitude factor [mg/rad] step [%] percent from the pattern period time gap

Definition at line 49 of file ProbeEngine.cs.

7.5.4.3 contrPhase

double Axel_probe.ProbeEngine.contrPhase = -11

Definition at line 369 of file ProbeEngine.cs.

7.5.4.4 dps

Dictionary<string, object> Axel_probe.ProbeEngine.dps

disturbances - fringe noise and Y breathing simulating experimental conditions Xnoise - [mg] noise in accel. (fringe shifting) Ynoise - [%] Y noise in fringe signal XnoiselO - (bool) Xnoise switch YnoiselO - (bool) Ynoise switch BrthPattern - (int) Breathing pattern BrthApmpl - Breathing amplitude BrthPeriod - Breathing period BrthIO - (bool) Breathing switch

Definition at line 62 of file ProbeEngine.cs.

7.5.4.5 IboxNB

ListBox Axel_probe.ProbeEngine.lboxNB = null

Definition at line 106 of file ProbeEngine.cs.

7.5.4.6 LockParams

Boolean Axel_probe.ProbeEngine.LockParams = false

Definition at line 70 of file ProbeEngine.cs.

7.5.4.7 remote

RemoteMessaging Axel_probe.ProbeEngine.remote = null

Definition at line 103 of file ProbeEngine.cs.

7.5.4.8 remoteMode

RemoteMode Axel_probe.ProbeEngine.remoteMode = RemoteMode.Disconnected

Definition at line 112 of file ProbeEngine.cs.

7.5.4.9 srsFringes

ChartCollection<Point> Axel_probe.ProbeEngine.srsFringes = null

Definition at line 105 of file ProbeEngine.cs.

7.5.4.10 srsSignalB

ChartCollection<double> Axel_probe.ProbeEngine.srsSignalB = null

Definition at line 108 of file ProbeEngine.cs.

7.5.4.11 srsSignalN

ChartCollection<double> Axel_probe.ProbeEngine.srsSignalN = null

Definition at line 107 of file ProbeEngine.cs.

7.5.4.12 stopWatch

Stopwatch Axel_probe.ProbeEngine.stopWatch

Definition at line 142 of file ProbeEngine.cs.

7.5.5 Property Documentation

7.5.5.1 axis

```
int Axel_probe.ProbeEngine.axis [get], [set]
```

Axis mode -1 - old style; 0 - X; 1 - Y; 2 - X/Y

Definition at line 68 of file ProbeEngine.cs.

7.5.5.2 Enabled

```
Boolean Axel_probe.ProbeEngine.Enabled [get], [set]
```

One way to start/stop a simulation

Definition at line 127 of file ProbeEngine.cs.

7.5.5.3 Pause

```
Boolean Axel_probe.ProbeEngine.Pause [get], [set]
```

Temporary pause the simulation

Definition at line 190 of file ProbeEngine.cs.

7.5.5.4 period

```
double Axel_probe.ProbeEngine.period [get]
```

Time period of generated

Definition at line 118 of file ProbeEngine.cs.

7.5.6 Event Documentation

7.5.6.1 OnChange

ChangeHandler Axel_probe.ProbeEngine.OnChange

Definition at line 212 of file ProbeEngine.cs.

7.5.6.2 OnLog

LogHandler Axel_probe.ProbeEngine.OnLog

Definition at line 223 of file ProbeEngine.cs.

The documentation for this class was generated from the following file:

· ProbeEngine.cs

7.6 Axel_probe::Properties::Resources Class Reference

A strongly-typed resource class, for looking up localized strings, etc.

7.6.1 Detailed Description

A strongly-typed resource class, for looking up localized strings, etc.

Definition at line 25 of file Resources. Designer.cs.

The documentation for this class was generated from the following file:

• Resources.Designer.cs

7.7 Axel_probe::Properties::Settings Class Reference

Inheritance diagram for Axel_probe::Properties::Settings:



7.7.1 Detailed Description

Definition at line 17 of file Settings.Designer.cs.

The documentation for this class was generated from the following file:

• Settings.Designer.cs

File Documentation

8.1 App.g.cs File Reference

Classes

class Axel_probe::App
 Interaction logic for App.xaml

Namespaces

• Axel_probe

8.2 App.g.i.cs File Reference

Classes

• class Axel_probe::App
Interaction logic for App.xaml

Namespaces

• Axel_probe

8.3 App.xaml.cs File Reference

Classes

• class Axel_probe::App
Interaction logic for App.xaml

28 File Documentation

Namespaces

· Axel_probe

8.4 AssemblyInfo.cs File Reference

8.5 Axel-probe_Content.g.i.cs File Reference

8.6 Kalman.cs File Reference

Classes

· class Axel_probe.PID

Under development

• class Axel_probe.Kalman

Under development

Namespaces

Axel_probe

8.7 MainWindow.g.cs File Reference

Classes

• class Axel_probe::MainWindow

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

Namespaces

• Axel_probe

8.8 MainWindow.g.i.cs File Reference

Classes

• class Axel_probe::MainWindow

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

Namespaces

· Axel probe

8.9 MainWindow.xaml.cs File Reference

Classes

class Axel probe::MainWindow

Axel-probe is replacement simulator for MotMaster2 generating signal according to a settings corresponding to some experimental conditions

Namespaces

· Axel_probe

8.10 ProbeEngine.cs File Reference

Classes

class Axel_probe.ProbeEngine

An calculating engine for generating a fringes patterns according simulated experimental conditions the engine runs by its timer and behaives similar to Axel-tilt its state evolve according to the set parameters (accel.; disturbances) and axel-probe queries the engine for its state OnChange event fires when the state is recalculated

Namespaces

· Axel_probe

Enumerations

• enum Axel_probe.RemoteMode {

 $Axel_probe.RemoteMode.Simple_Repeat, Axel_probe.RemoteMode.Ready_To_Remote \}$

The current mode (group command) of incomming shots

8.11 README.md File Reference

8.12 Resources.Designer.cs File Reference

Classes

· class Axel_probe::Properties::Resources

A strongly-typed resource class, for looking up localized strings, etc.

30 File Documentation

Namespaces

- Axel_probe
- Axel_probe::Properties

8.13 Settings.Designer.cs File Reference

Classes

• class Axel_probe::Properties::Settings

Namespaces

- Axel_probe
- Axel_probe::Properties

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