

The KATRIN – Game – Manual

Navigation: WASD Control Scheme

Combination of keyboard and mouse:
Walking: WASD-keys
View direction:
 Mouse move

Walking
 W: forward
 A: left
 S: backward
 D: right

Viewing direction
 up
 down
 left
 right

Special keys

Game Control

Navigation:

Forward	W
Backward	S
Left	A
Right	D
Run Mode	Left Shift
Viewing Direction	Mouse Move
Jump	Space

Special:

Help Screen	H
X-Ray View	X
Map View	M (hint: visit 'O')
Zoom	Z
Reset Position	R
Beam to KIT Entrance	P
Exit Application	Esc

Game Modes:

Start/Stop Game	G
Teacher/Tour Guide Mode	T
(use 1/2/3/4 keys for toggling switches)	

Activating Switches:

Place in front (until it gets active) +
 Left Mouse Click

Important keys:

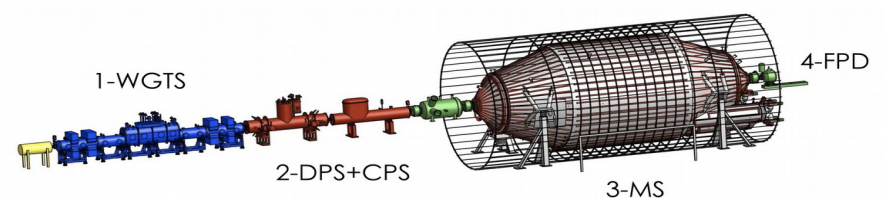
Show Help	"H"
X-Ray View (Superman View)	"X"
Cycle Through Map Views	"M"

Game quest

KATRIN Game Quests

The goal is to get the KATRIN experiment running.
 This requires the following tasks:

1. Activate the tritium source (WGTS) to produce electrons.
2. Activate the pumping and transport section (DPS + CPS) to avoid tritium contamination of the spectrometer.
3. Activate the electromagnetic field in the main spectrometer (MS) to push back slow electrons and to avoid damage of the detector wafer.
4. Activate the detector (FPD=focal plane detector) and the data acquisition system to record information about the physical relevant processes.



Hint 1: Follow the tour marked with red arrows to become acquainted with the experiment setup.

Hint 2: Search for switches near the components to activate them. Switches start glowing as soon as you are close enough, in front of them and look towards them. When a switch started glowing, you may toggle its state using the left mouse button.

Hint 3: You may explore the KIT Campus North. Follow the black arrows to find some secret places.

Game Quest:

Find all 4 switches and activate them.

Activating a switch: place yourself in front of a switch; when it starts "glowing", use left mouse click.

Start a new round with key "G" (twice).