

# Irradiation setup 4 (CEEC II, E002)

Date: 2025-09-29

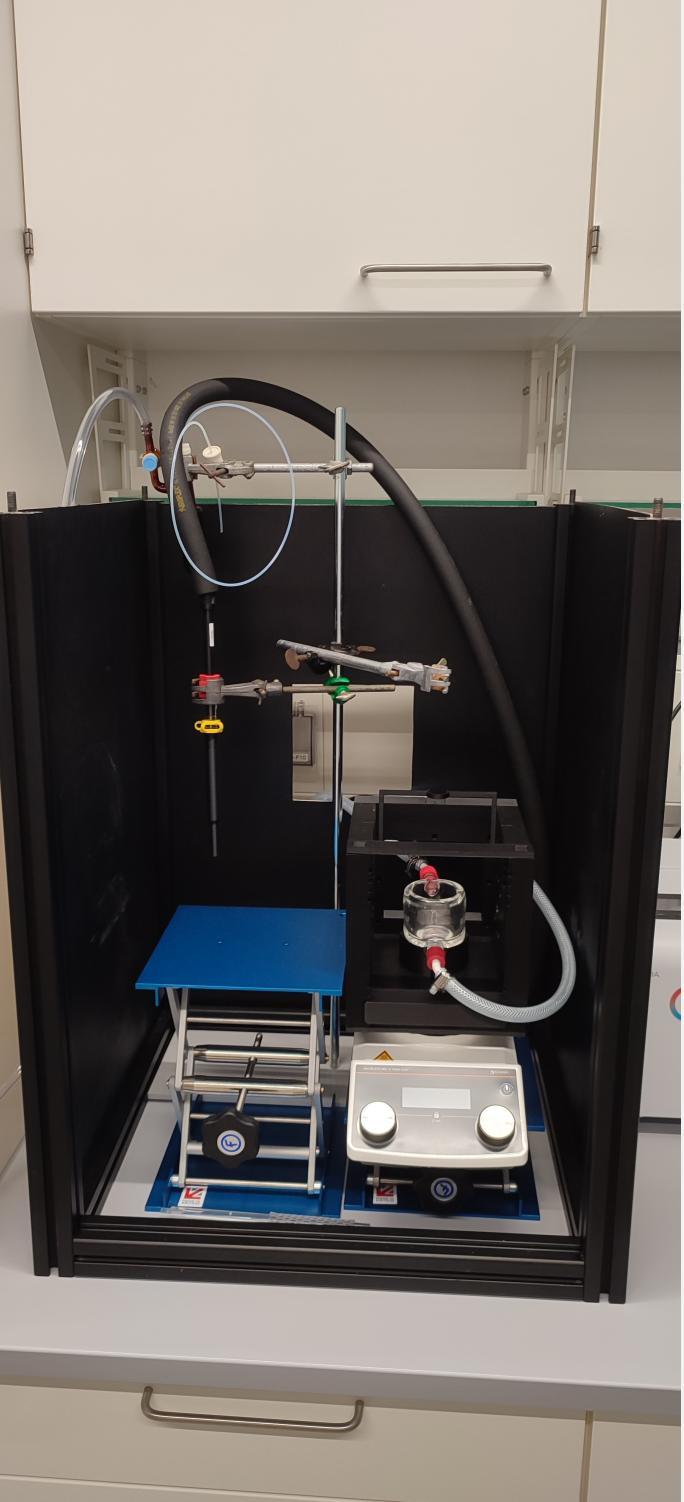
Tags: Lauda Irradiation setup EA  
advanced irrad setup H2 Sensor CEEC-II  
LabE002 CE

Category: Equipment

Created by: Ebrahim Abedini

## Table



<b>Setup name</b>	Irradiation set-up 4
	

<b>Type of the setup</b>	Equipment - Advanced irradiation setup V1.0 I
<b>Information</b>	<i>Information - Everything about Usage of Irradiation Set-Up</i>
<b>Location</b>	CEEC II, lab E002 <a href="#">Lab E002 - CEEC II</a> Left side of the lab Color: Blue
<b>Name in Instruments Calendar</b>	<i>Irradiation set-up 4</i>
<b>Power sources</b>	Power Sources - BLS-18000-1 4
<b>LEDs</b>	Light Source - UHP LED 365 nm-4
<b>Beam combiner</b>	/
<b>Lauda</b>	Equipment - Lauda - LOOP Thermoelectric thermostat, L100, 4
<b>Hydrogen sensor</b>	Equipment - H2 UniAmp Sensor - Normal range - 2.1 x 80 mm needle Equipment - H2 UniAmp Sensor - Low range - 2.1 x 80 mm needle Equipment - H2 UniAmp Single Channel System Equipment - H2 UniAmp Sensor Equipment - Pt1000 - Temperature Sensor
<b>Introduction</b>	Alex, Nadja
<b>Responsible Person</b>	Alex, Nadja

<b>Protocol on usage of the setup</b>	Protocol - Irradiation setup Protocol - Catalytic tests in irradiation setup in flasks/vials Protocol - Using the advanced irradiation setup V1.0 Protocol - Hydrogen measurement with H2 UniAmp sensor (1 point gas phase measurement) Protocol - Hydrogen measurement with H2 UniAmp sensor (liquid or gas phase continuous measurement)
<b>Additional Information</b>	<p><b>Before the LED lamps can be turned on safety precautions have to be taken! (lab coat, blue nitril gloves, UV-glasses).</b></p> <p><b>Check the cleanliness of the Lauda's solution before starting your photocatalytic experiments.</b></p> <p><b>Choose the appropriate holder for your Schlenk/NMR tube.</b></p> <p><b>Choose the appropriate aperture for the LED configuration that you want to use.</b></p> <p><b>Close the dark box from all 4 sides before starting the irradiation.</b></p> <p><b>The switch on the LED itself should not be used (should always be in the "on" ("I") position).</b></p> <p><b>After usage, check the Argon flow to be closed, LEDs disconnected from the power source, and the stirring plate to be turned off.</b></p> <p><b>Do not use the stirring plate's heating function while there are plastic tapes on it.</b></p> <p><b>Clean the degassing cannula after usage. (Replace with a new one in case of usage of noble metals).</b></p>
<b>Status from</b>	29/09/2025

## Linked resources

[Beam Combiner - Beam Combiner LCS-BC25-0409 -1](#)

[Beam Combiner - Beam Combiner LCS-BC25-0409 -2](#)

[Equipment - Firesting Fiber-Optic Oxygen Meter 2 Channel \(Firesting 2\)](#)

[Equipment - Firesting Fiber-Optic Oxygen Meter 2 Channel \(Firesting 3\)](#)

[Equipment - Advanced irradiation setup V1.0 I](#)

[Equipment - H2 UniAmp Sensor - Low range - 2.1 x 80 mm needle](#)

[Equipment - Manual irradiation setup](#)

[Equipment - H2 UniAmp Sensor - Normal range - 2.1 x 80 mm needle](#)

[Equipment - Lauda - LOOP Thermoelectric thermostat, L100, 1](#)

[Equipment - Lauda - LOOP Thermoelectric thermostat, L100, 2](#)

Equipment - Lauda - LOOP Thermoelectric thermostat, L100, 3

Equipment - Lauda - LOOP Thermoelectric thermostat, L100, 4

Equipment - Pt1000 - Temperature Sensor

Laboratory - Lab E002 - CEEC II

Light Source - UHP LED 365 nm-1

Light Source - UHP LED 470 nm-1

Light Source - UHP LED 6500 K (white)-1

Light Source - HP LED 405 -1

Light Source - HP LED 405 -2

Light Source - HP LED 415

Light Source - HP LED 6500 K (white) -1

Light Source - HP LED 6500 K (white) -2

Light Source - UHP LED 365 nm-4

Power Sources - BLS-1000-2 1

Power Sources - BLS-1000-2 2

Power Sources - BLS-13000-1E

Power Sources - BLS-18000-1 1

Power Sources - BLS-18000-1 4

Protocol - Catalytic tests in irradiation setup in flasks/vials

Protocol - Hydrogen measurement with H2 UniAmp sensor (1 point gas phase measurement)

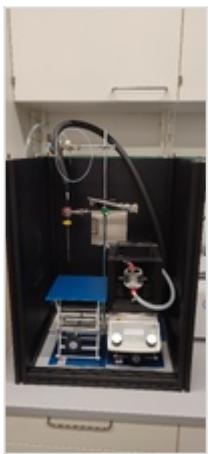
Protocol - Hydrogen measurement with H2 UniAmp sensor (liquid or gas phase continuous measurement)

Protocol - Cleaning of double walled beaker

## Attached file

Irradiation-setup-4.jpg

sha256: 196a21fc940b03411e0e83e82b44ccfc93d3bf238aaaf73224cd6847bed0ed3b



## Comments

On 2025-09-30 12:00:17 Jacob Schneidewind wrote:

\* Adding PT1000

On 2025-10-06 23:07:53 Ebrahim Abedini wrote:

\* Done



Unique eLabID: 20250929-6367fdf36116445d5217be302411ac7c2366a5dd  
Link: <https://elab.water-splitting.org/database.php?mode=view&id=283>