

# **2021 Photon Propagator Workshop**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome, scope of the workshop

*Monday, 18 October 2021 16:00 (20 minutes)*

**Primary author:** RONGEN, Martin (RWTH Aachen University)

**Presenter:** RONGEN, Martin (RWTH Aachen University)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 2

Type: **not specified**

## Software workflow and responsibilites discussion

*Monday, 18 October 2021 18:40 (20 minutes)*

**Primary author:** OLIVAS, Alex (University of Maryland)

**Presenter:** OLIVAS, Alex (University of Maryland)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 3

Type: **not specified**

## Photon propagation for exotics

*Monday, 18 October 2021 17:00 (20 minutes)*

Luminescence, indirect Cherenkov ...

**Primary author:** Dr POLLMANN, Anna (University of Wuppertal)

**Presenter:** Dr POLLMANN, Anna (University of Wuppertal)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 4

Type: **not specified**

## PPC overview

*Monday, 18 October 2021 16:20 (20 minutes)*

**Primary author:** Mr CHIRKIN, Dmitry (University of Wisconsin–Madison)

**Presenter:** Mr CHIRKIN, Dmitry (University of Wisconsin–Madison)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 5

Type: **not specified**

## clSim Overview

*Monday, 18 October 2021 16:40 (20 minutes)*

**Primary author:** HARNISCH, Alexander (Michigan State University)

**Presenter:** HARNISCH, Alexander (Michigan State University)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 6

Type: **not specified**

## Direct fit in PPC and clSim

*Monday, 18 October 2021 17:20 (20 minutes)*

**Primary authors:** NOWICKI, Sarah (Michigan State University); YUAN, Tianlu (University of Wisconsin–Madison)

**Presenters:** NOWICKI, Sarah (Michigan State University); YUAN, Tianlu (University of Wisconsin–Madison)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 7

Type: **not specified**

## Direct hole ice and cable shadow

*Monday, 18 October 2021 18:20 (20 minutes)*

**Primary author:** FIEDLSCHUSTER, Sebastian (Friedrich-Alexander-Universität Erlangen)

**Presenter:** FIEDLSCHUSTER, Sebastian (Friedrich-Alexander-Universität Erlangen)

**Session Classification:** Photon propagators for simulation production and ice fitting



Contribution ID: 8

Type: **not specified**

## Snowstorm

*Monday, 18 October 2021 17:40 (20 minutes)*

**Presenter:** GANSTER, Erik (RWTH Aachen University)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: 9

Type: **not specified**

## Segmented Photocathodes

*Tuesday, 19 October 2021 16:40 (20 minutes)*

**Primary authors:** TRETTIN, Alexander (DESY Zeuthen); BENDA, Samuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=education,dc=engineering,dc=physics,dc=science,dc=technology,dc=transportation,dc=university,dc=wisconsin,dc=zeuthen); MA, Wing (DESY Zeuthen)

**Presenters:** TRETTIN, Alexander (DESY Zeuthen); BENDA, Samuel (o=uwmad,ou=Institutions,dc=icecube,dc=wisc,dc=education,dc=engineering,dc=physics,dc=science,dc=technology,dc=transportation,dc=university,dc=wisconsin,dc=zeuthen); MA, Wing (DESY Zeuthen)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: **10**

Type: **not specified**

## Camera Simulation

*Tuesday, 19 October 2021 17:00 (20 minutes)*

**Primary author:** KANG, Woosik (Sungkyunkwan University)

**Co-author:** ROTT, Carsten (University of Utah)

**Presenters:** ROTT, Carsten (University of Utah); KANG, Woosik (Sungkyunkwan University)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: **11**

Type: **not specified**

## Elongated Modules

*Tuesday, 19 October 2021 17:20 (20 minutes)*

LOM, FOM, WOM ...

**Primary authors:** SCHMEISSER, Nick (Universität Wuppertal); FIEDLSCHUSTER, Sebastian (Friedrich-Alexander-Universität Erlangen)

**Presenters:** SCHMEISSER, Nick (Universität Wuppertal); FIEDLSCHUSTER, Sebastian (Friedrich-Alexander-Universität Erlangen)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: 12

Type: **not specified**

## **Efficiency considerations (ice model, wavelength sampling, etc)**

*Tuesday, 19 October 2021 18:20 (20 minutes)*

**Primary author:** RONGEN, Martin (RWTH Aachen University)

**Presenter:** RONGEN, Martin (RWTH Aachen University)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: **13**

Type: **not specified**

## OptiX interface

*Tuesday, 19 October 2021 17:40 (20 minutes)*

**Primary author:** RIEDEL, Benedikt (University of Wisconsin–Madison)

**Presenter:** RIEDEL, Benedikt (University of Wisconsin–Madison)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: **14**

Type: **not specified**

## Geant interface

*Tuesday, 19 October 2021 18:00 (20 minutes)*

**Primary authors:** HOSHINA, Kotoyo (University of Wisconsin–Madison); SHIMIZU, Nobuhiro (Chiba University)

**Presenters:** HOSHINA, Kotoyo (University of Wisconsin–Madison); SHIMIZU, Nobuhiro (Chiba University)

**Session Classification:** Photon propagation in the Upgrade and beyond

Contribution ID: **16**

Type: **not specified**

## **Overview of Photon Propagator requirements for the Upgrade & Gen2**

*Tuesday, 19 October 2021 16:00 (20 minutes)*

**Presenter:** LARSON, Michael (University of Maryland)

**Session Classification:** Photon propagation in the Upgrade and beyond



Contribution ID: 17

Type: **not specified**

## Triggered Corskia, GEANT

*Monday, 18 October 2021 18:00 (20 minutes)*

**Primary author:** MEAGHER, Kevin (University of Wisconsin–Madison)

**Presenter:** MEAGHER, Kevin (University of Wisconsin–Madison)

**Session Classification:** Photon propagators for simulation production and ice fitting

Contribution ID: **18**

Type: **not specified**

## Upgrade/Gen2 simulation with PPC

*Tuesday, 19 October 2021 16:20 (20 minutes)*

**Primary author:** CHIRKIN, Dmitry (University of Wisconsin–Madison)

**Presenter:** CHIRKIN, Dmitry (University of Wisconsin–Madison)

**Session Classification:** Photon propagation in the Upgrade and beyond