

## Congratulations to the winners of OPN's 17<sup>th</sup> annual After Image photo contest.

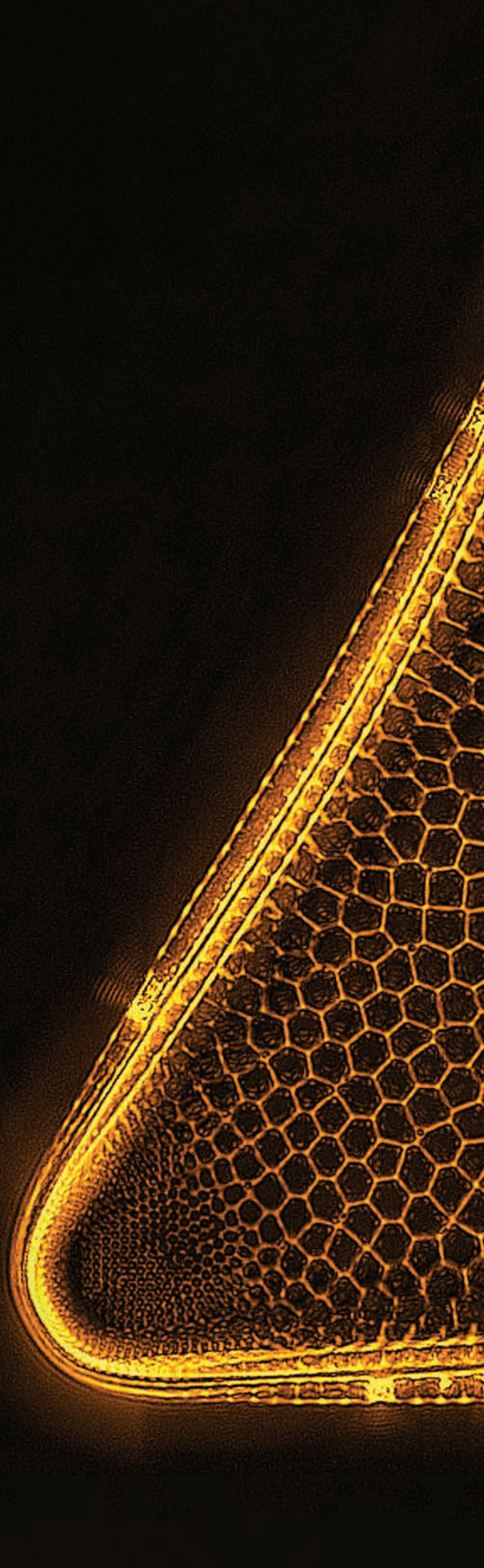
For this year's contest, OPN received 43 remarkable entries. We thank the panel of judges who provided insight on those images and helped select the winners: **Felipe Beltrán-Mejía, Alvaro Casas Bedoya, Mihaela Dinu, Anca Sala** and **Joel Villatoro**.

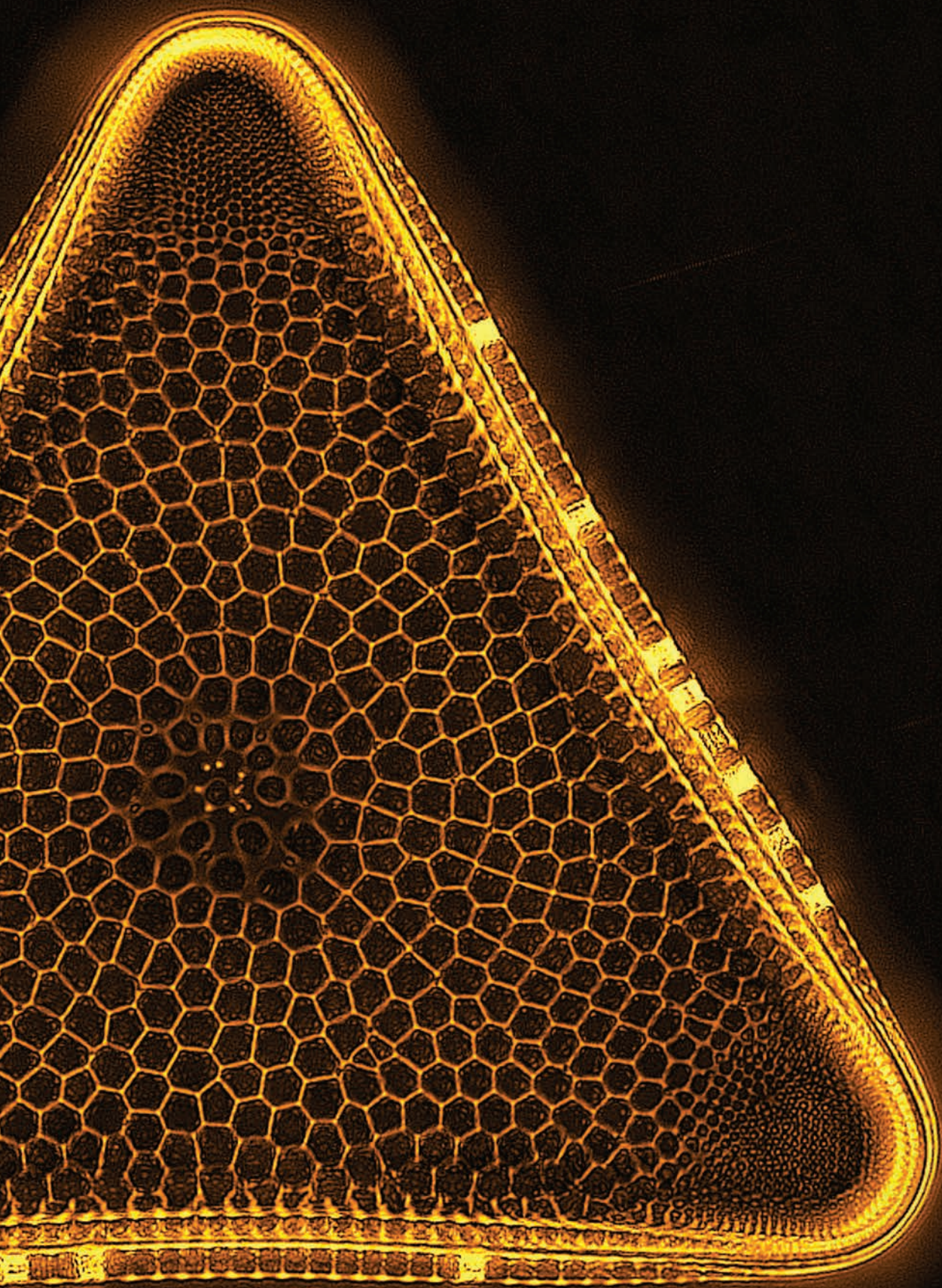
You can see all of this year's contest entries online at [optica-opn.org/contest/2022](https://optica-opn.org/contest/2022).

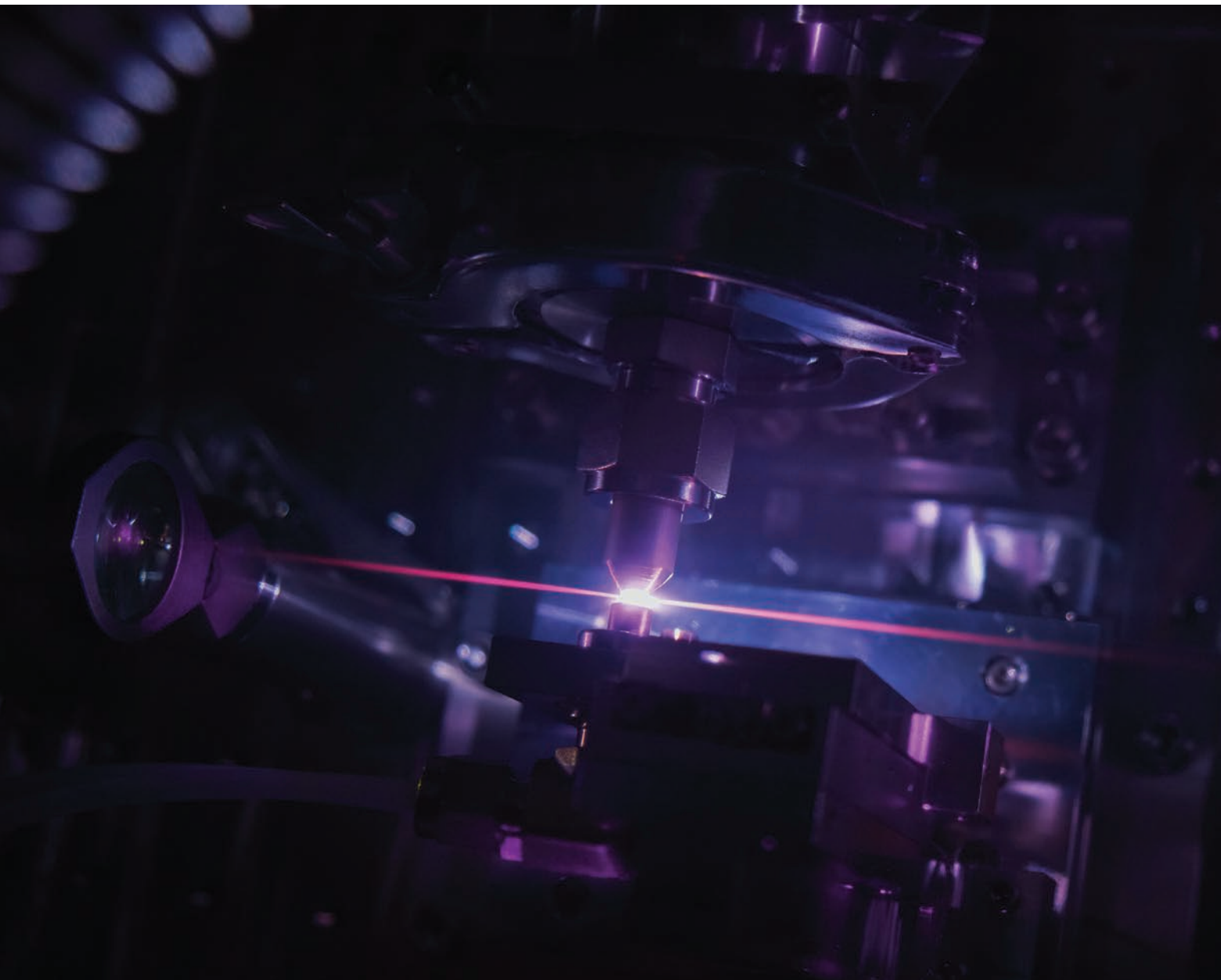
### FIRST PLACE

Label-free quantitative phase image of the diatom *Trigonium*. Image taken with an orientation-independent differential interference contrast (OI-DIC) microscope with a 60× water-immersion objective lens. The image width is 90  $\mu\text{m}$ . Specimen was provided by diatom artist Osamu Oku ([ncbi.nlm.nih.gov/pmc/articles/PMC5980661](https://ncbi.nlm.nih.gov/pmc/articles/PMC5980661)).

—*Michael Shribak,*  
*Marine Biological Laboratory,*  
*Woods Hole, MA, USA*







## SECOND PLACE

A high-power femtosecond infrared laser focused into a pressurized Argon gas jet, leading to a plasma in which high-harmonic generation (HHG) occurs to produce coherent EUV and soft X-rays.

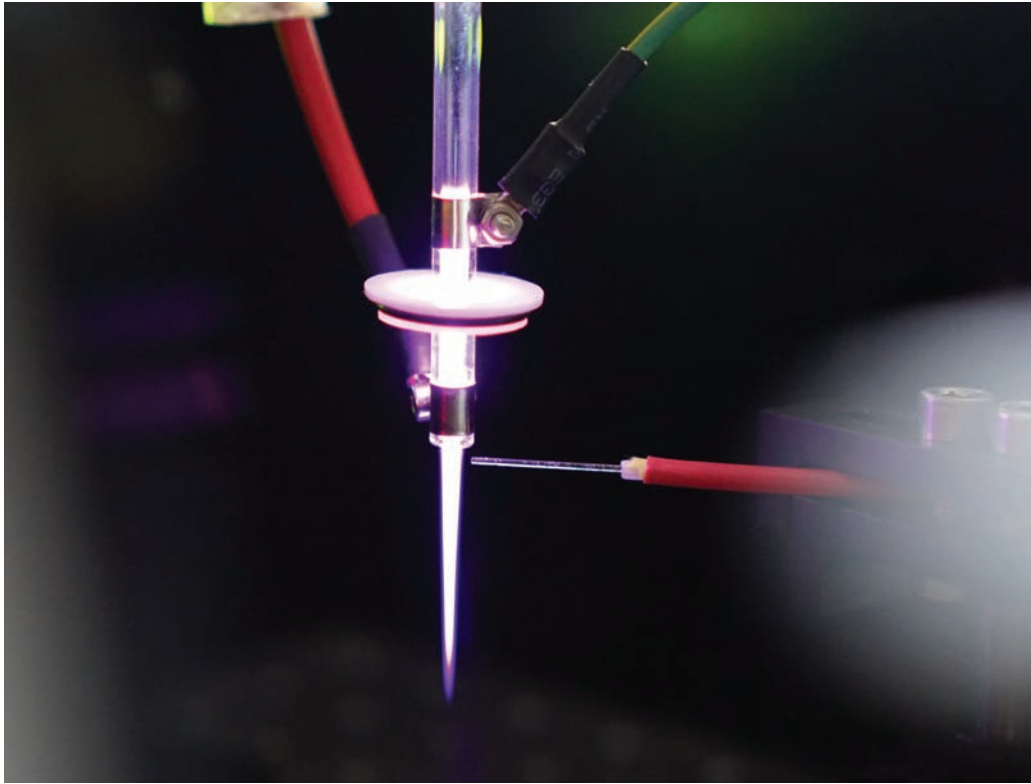
—*Sven Weerdenburg,*  
*Delft University of Technology, Delft, Netherlands*



### THIRD PLACE

As demonstrated by Isaac Newton, prisms deflect light rays to varying degrees depending on the color of the light. This effect creates the fascinating superimpositions of the color gradients in this picture.

*—Susanne Viezens,  
Max Planck Institute for the Science of Light, Erlangen, Germany*



## HONORABLE MENTION

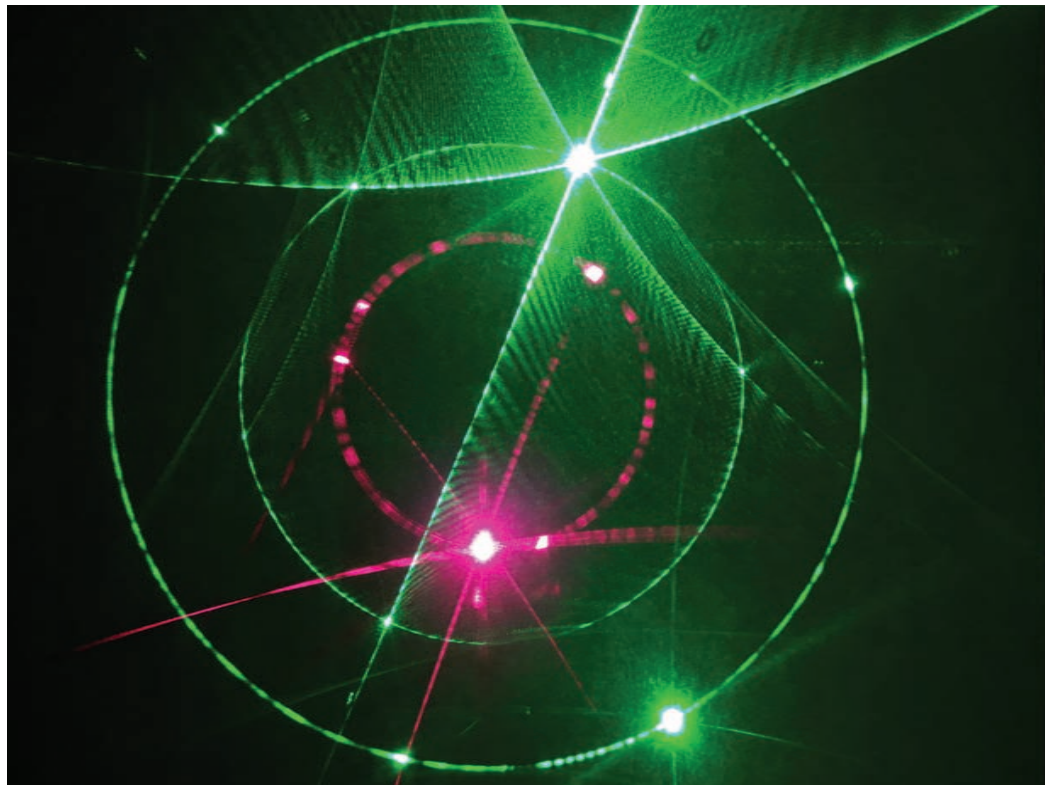
A cold atmospheric-pressure plasma jet in a helium/deuterated-water (HDO) mixture in the lab of Grant Ritchie, University of Oxford, UK. The plasma is pulsed at 20 kHz and is probed by the laser beam of a fast mid-infrared dual-comb spectrometer (IRsweep, IRis-F1) to study changes in the energy state population density of HDO.

—*Michele Gianella,*  
*Empa, Dübendorf,*  
*Switzerland*

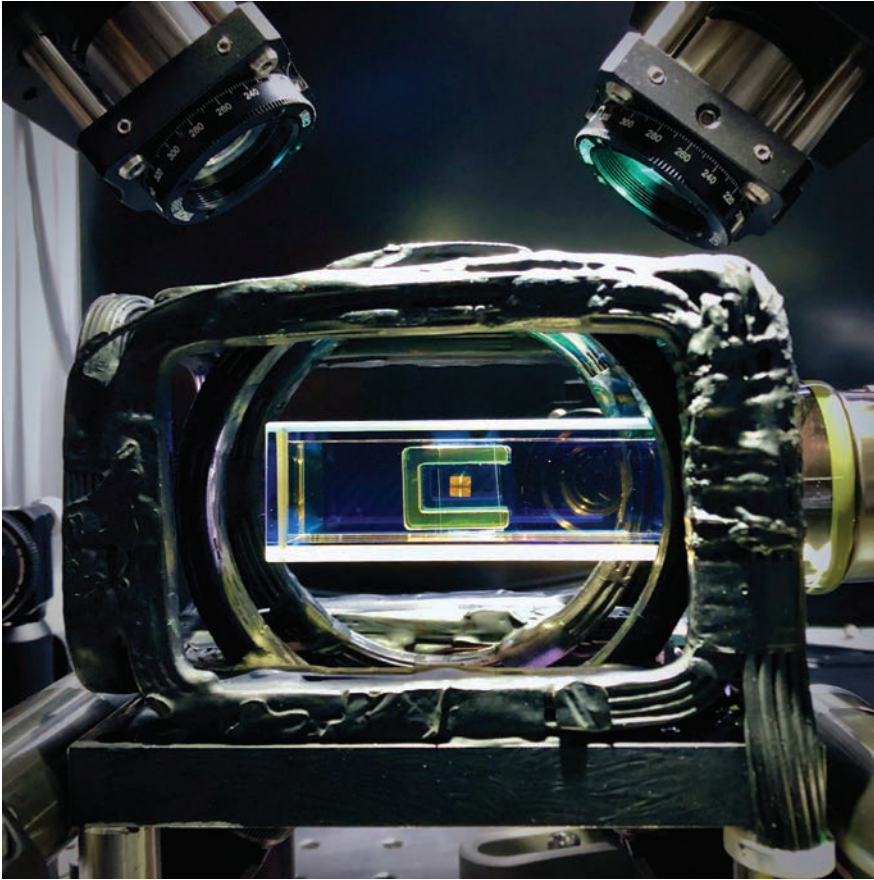
## HONORABLE MENTION

Laser scattering in Plateau borders. The “parlaseric circle” is a luminous ring generated by light scattering in foam or soap bubbles. The name was inspired by the atmospheric phenomena known as a parhelic circle.

—*Adriana P.B. Tufaile,*  
*Soft Matter Lab,*  
*EACH-University of*  
*São Paulo, São Paulo,*  
*Brazil*



Visit [optica-opn.org/contest/2022](https://optica-opn.org/contest/2022) for a look at all the submissions to this year’s After Image photo contest.



## HONORABLE MENTION

Camera image of an optical setup, showcasing the science cell with an integrated metasurface lens at the center, used to capture and image single Rb atoms.

—Amit Agrawal, Cindy Regal and Scott Papp,  
NIST, JILA-CU Boulder,  
CO, USA

## HONORABLE MENTION

A semicircular rainbow with dual rings over Lake Mjøsa, Norway.

—Tanjir Alam,  
Norwegian University of  
Science and Technology  
(NTNU), Gjøvik, Norway

