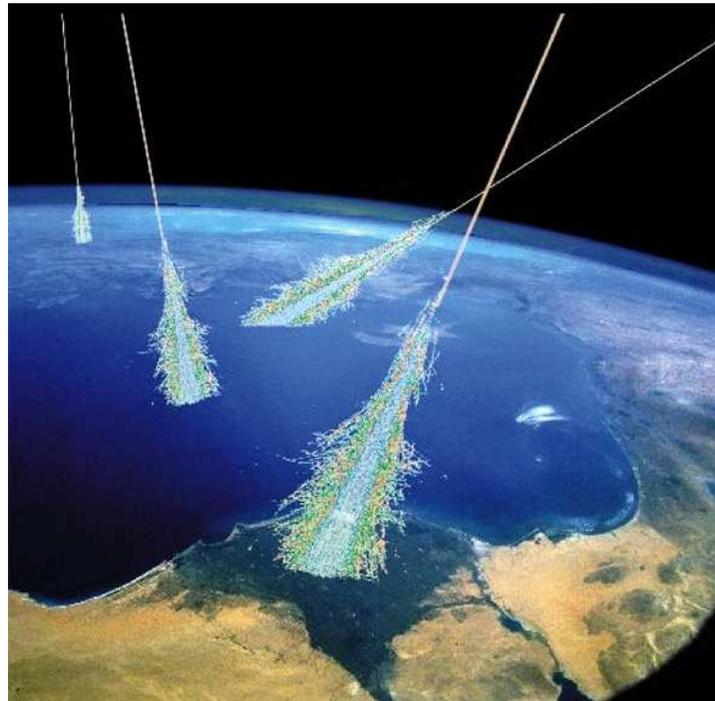
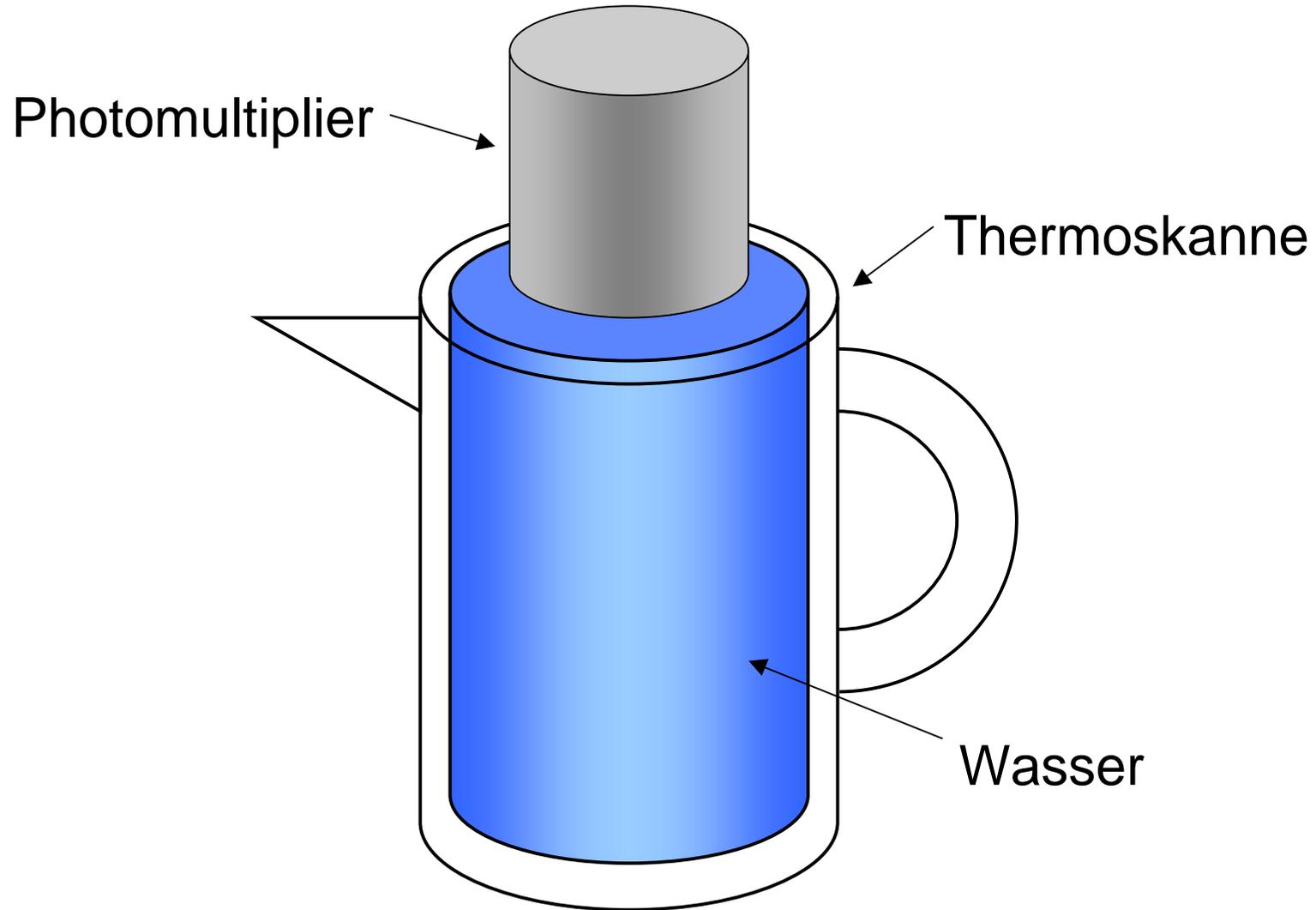


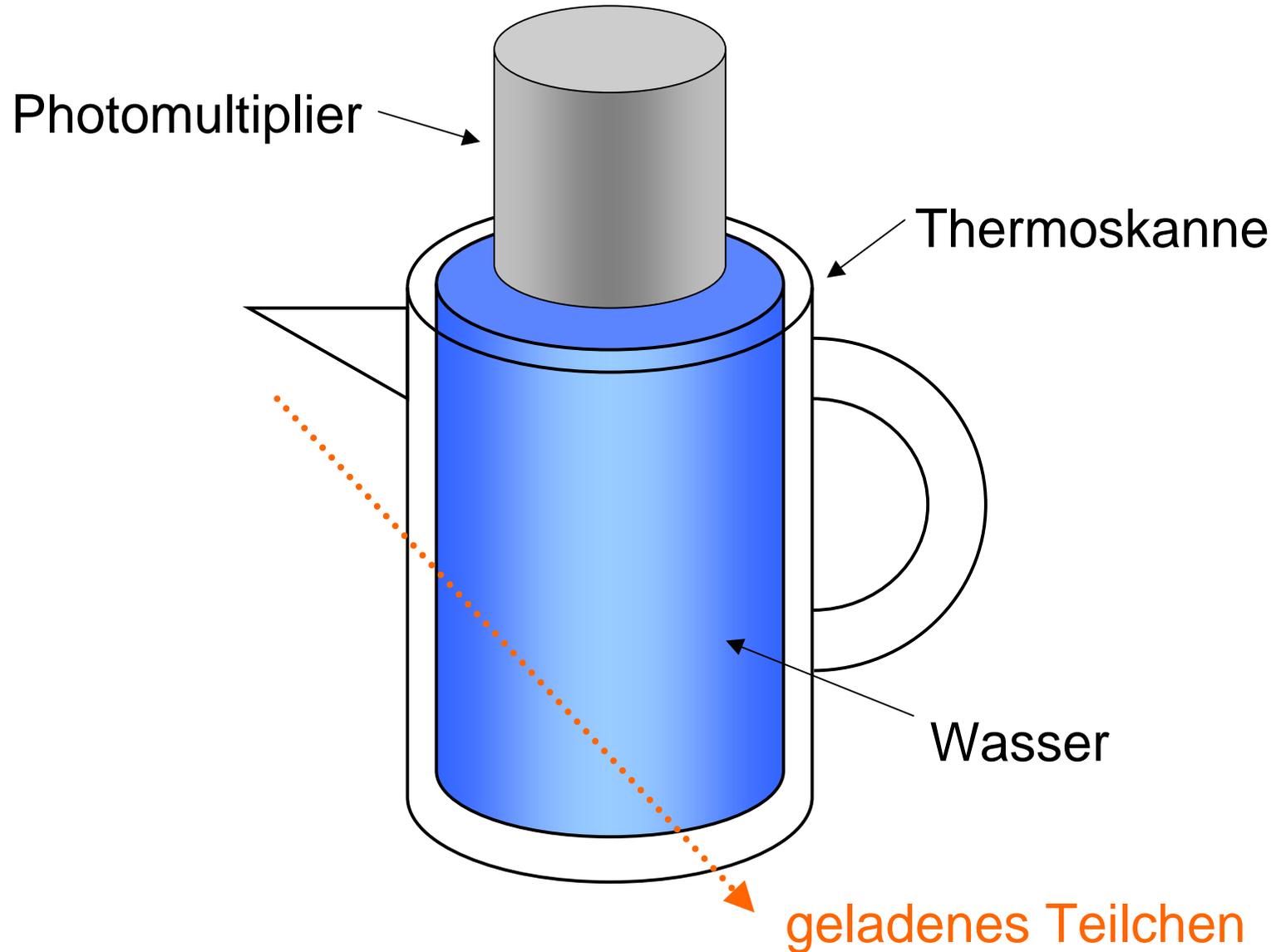
Teil 3: Kosmische Strahlung



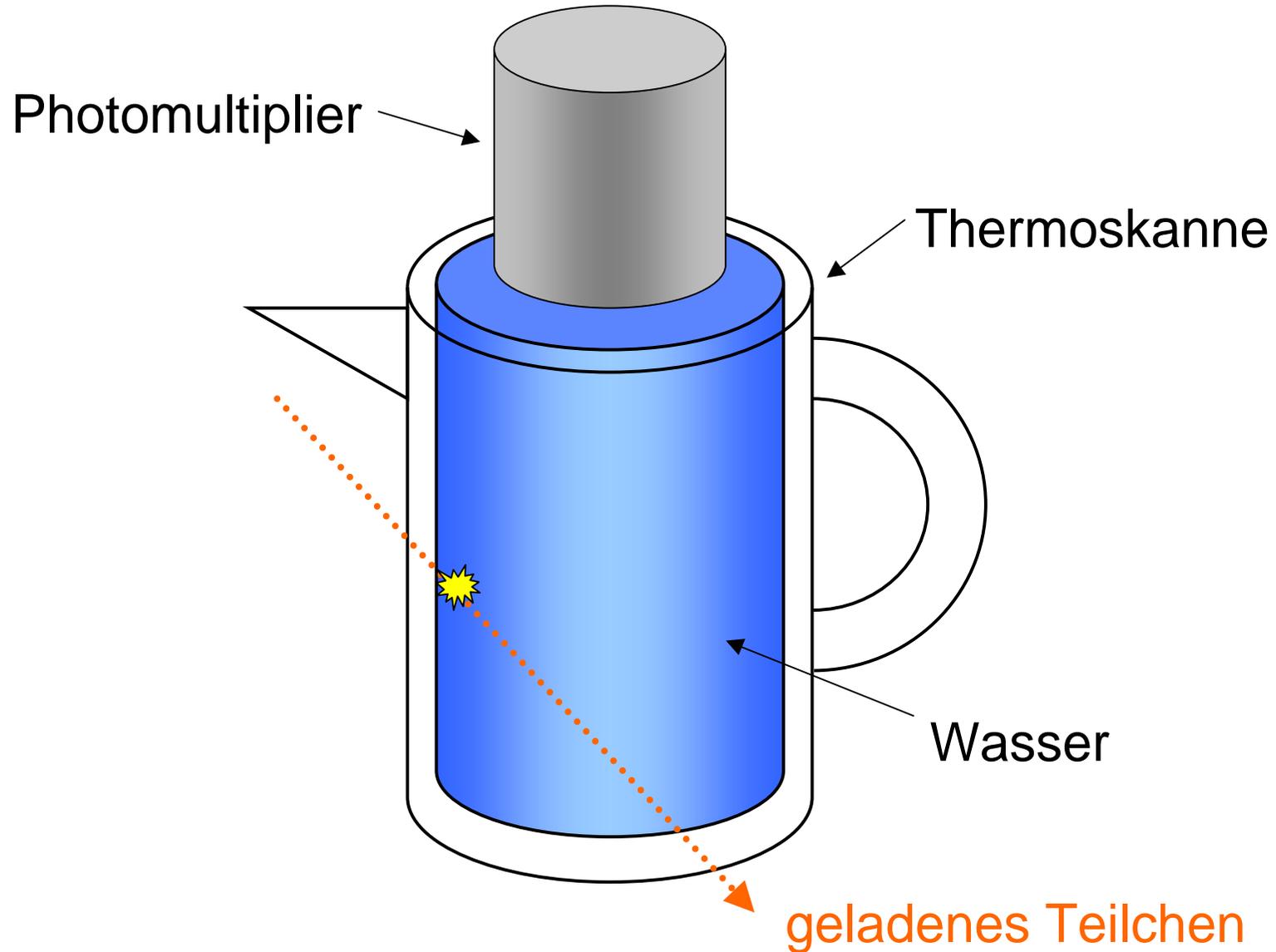
Thermoskannen-Versuch



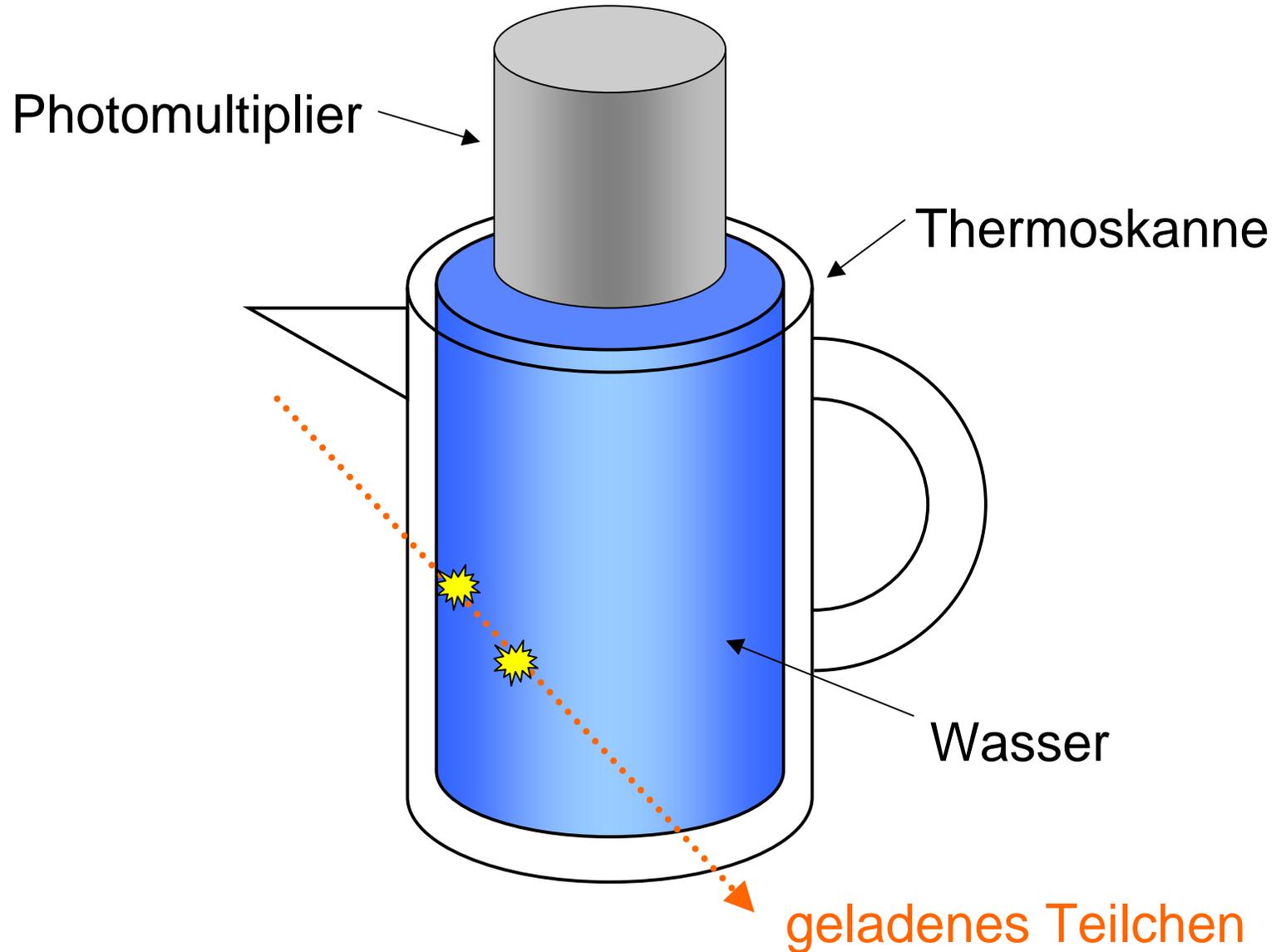
Thermoskannen-Versuch



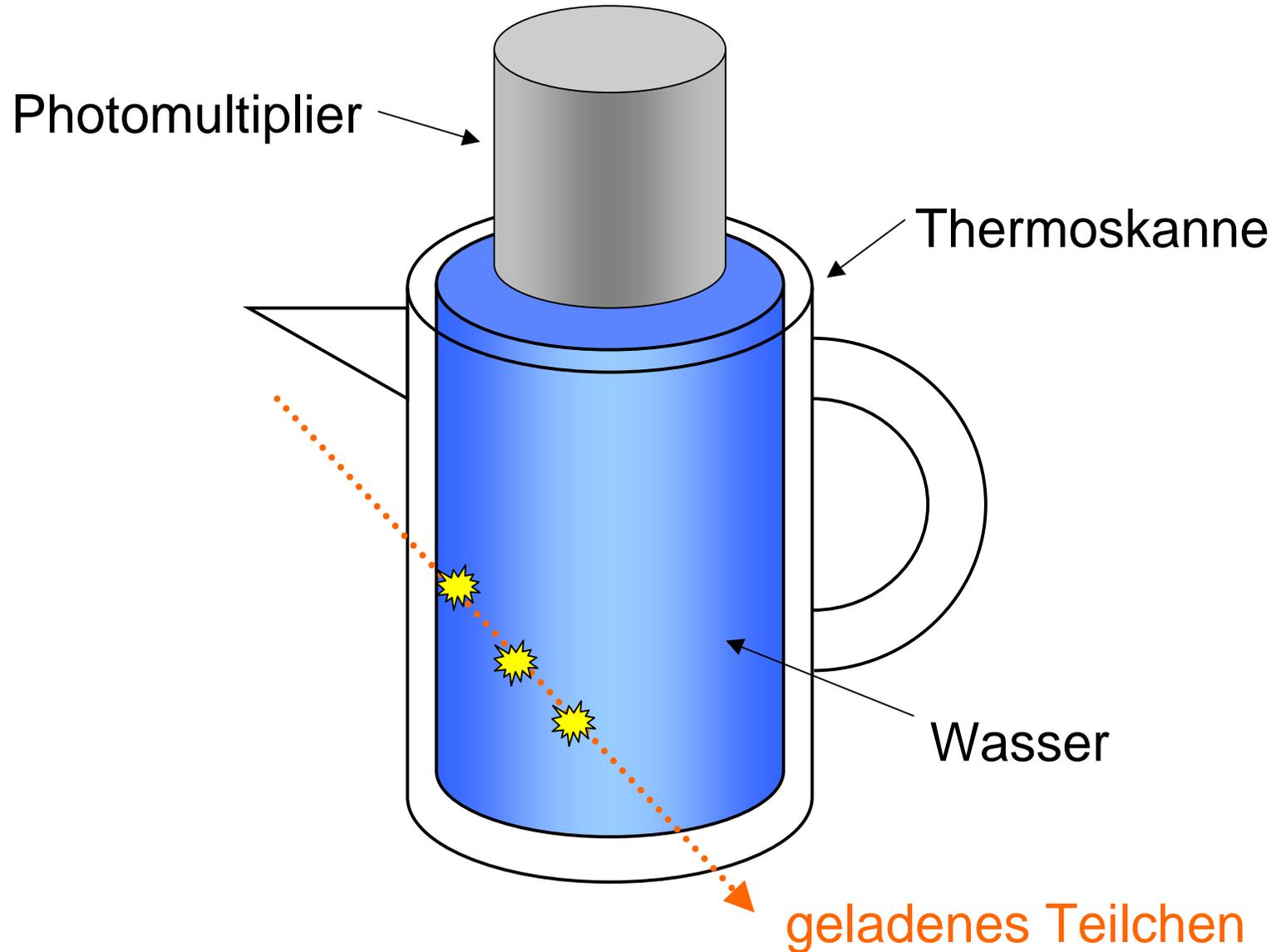
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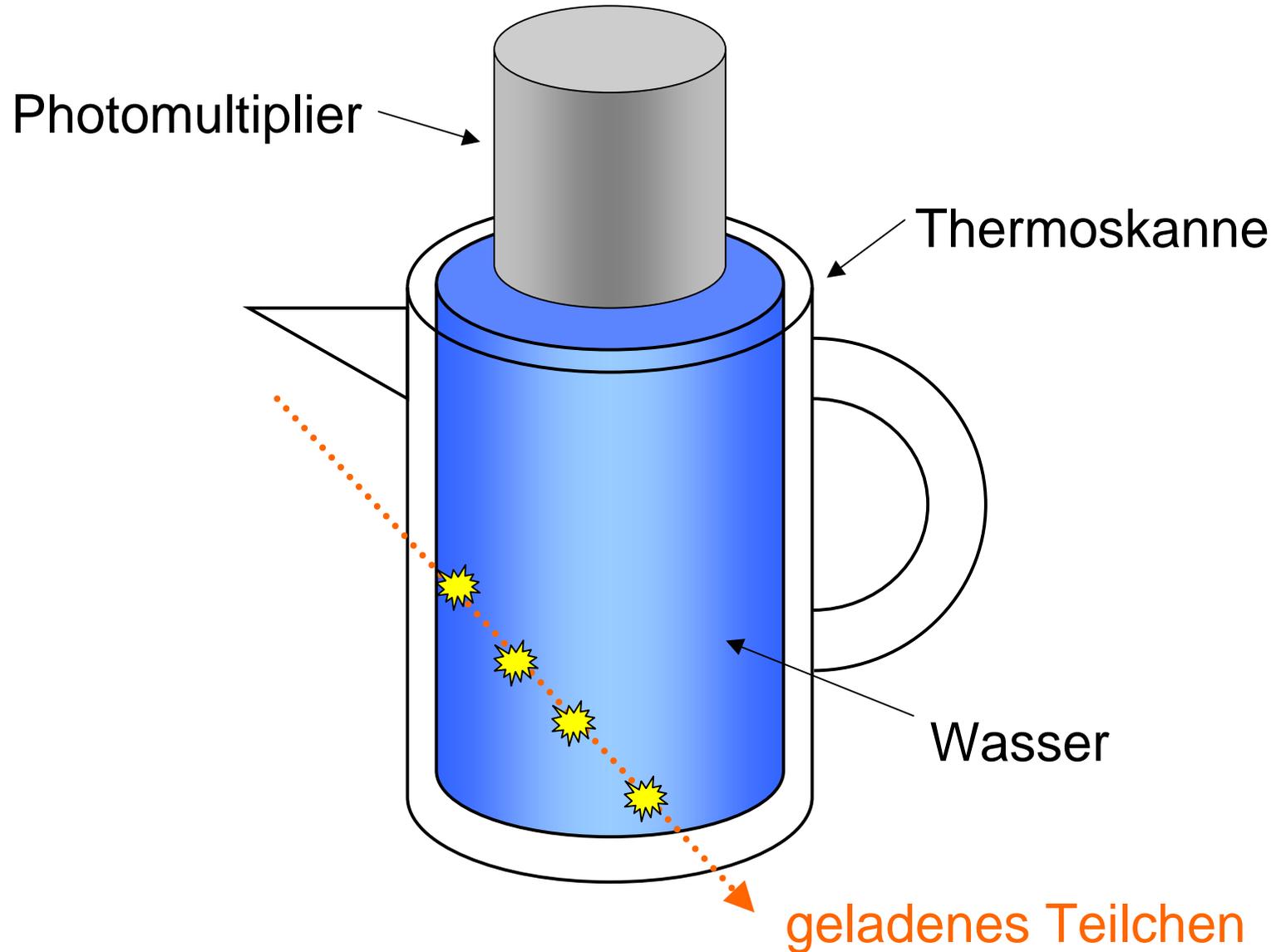
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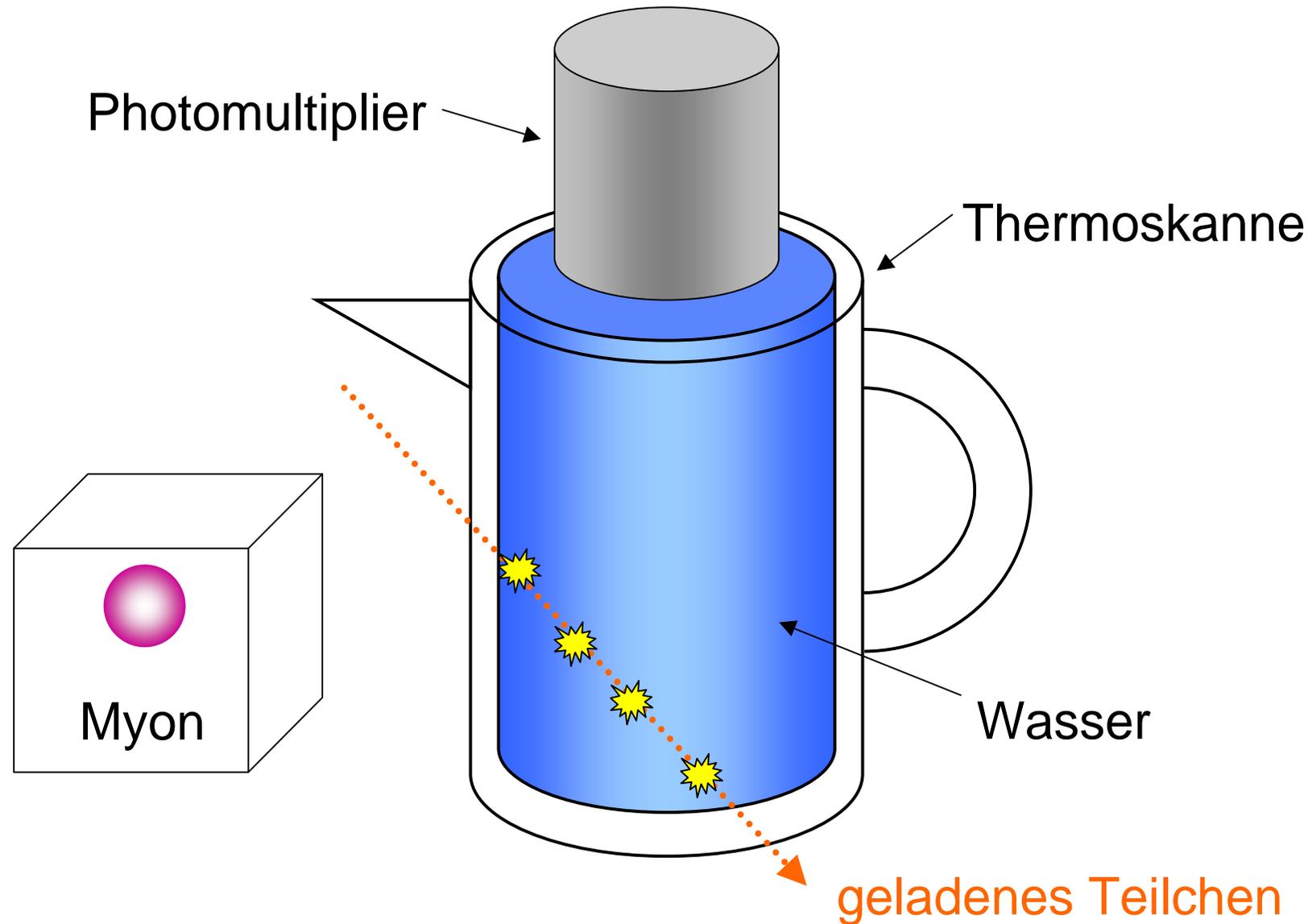
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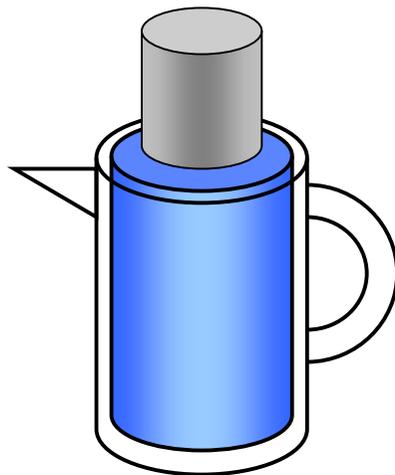
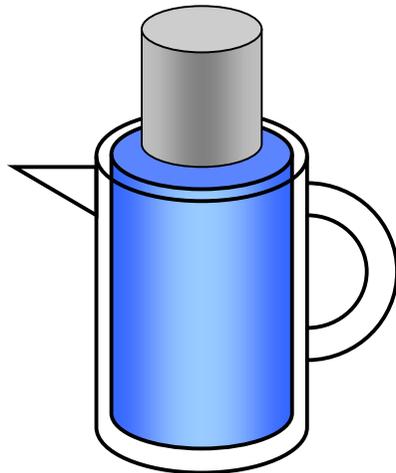
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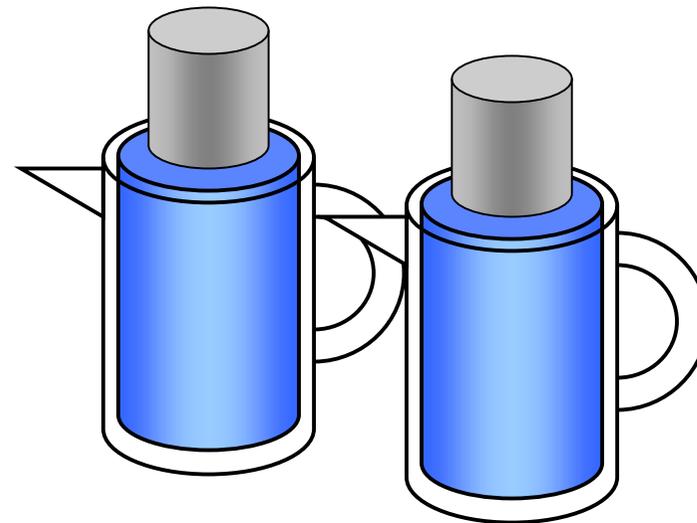
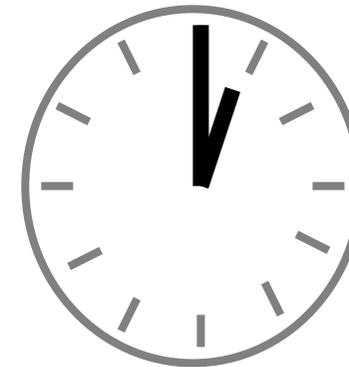
Thermoskannen-Versuch



Koinzidenz-Messung

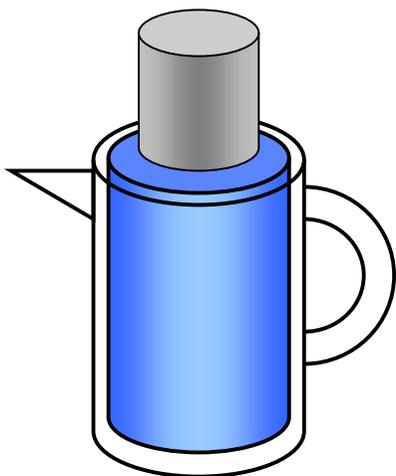
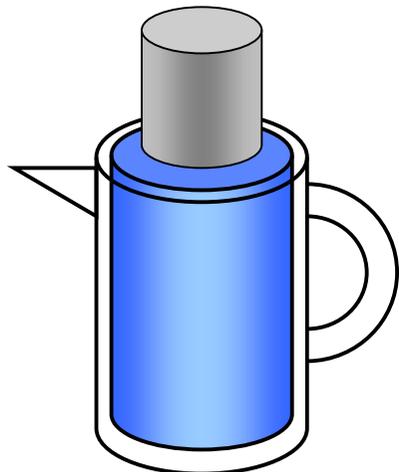


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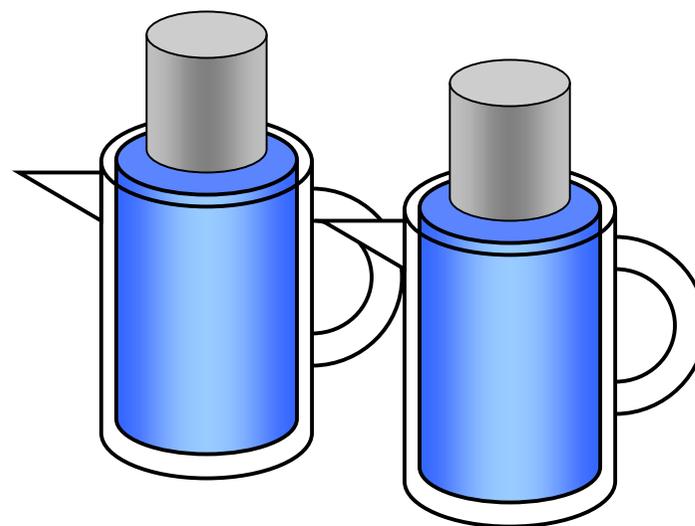
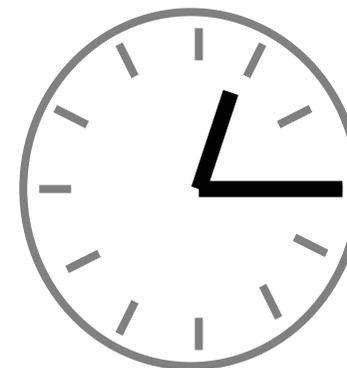


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Koinzidenz-Messung

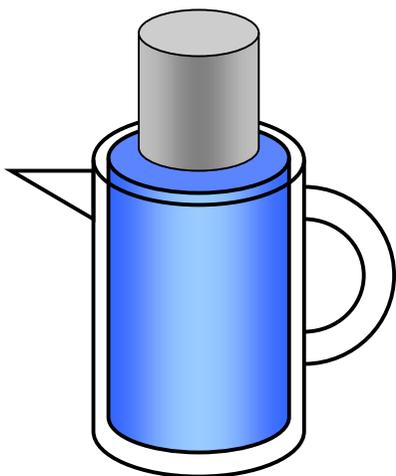
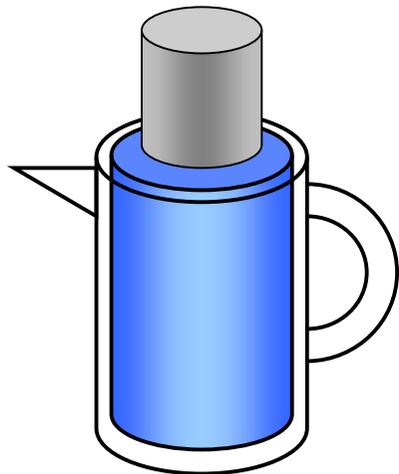


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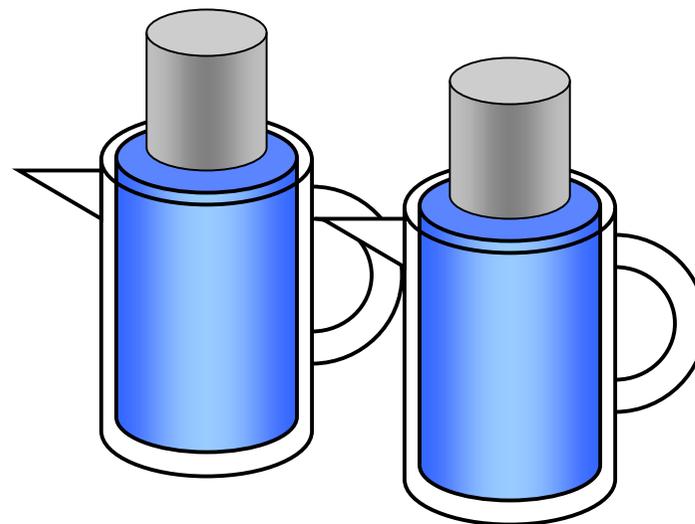
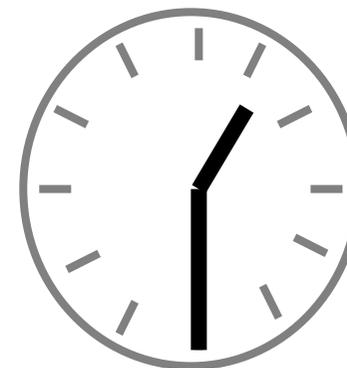


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Koinzidenz-Messung

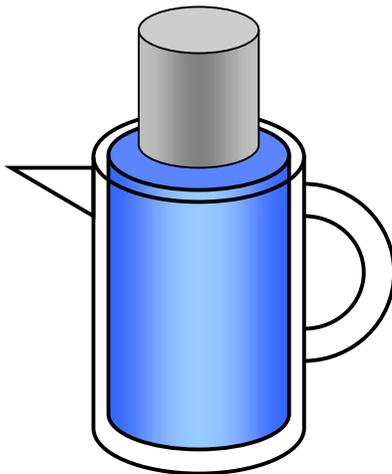
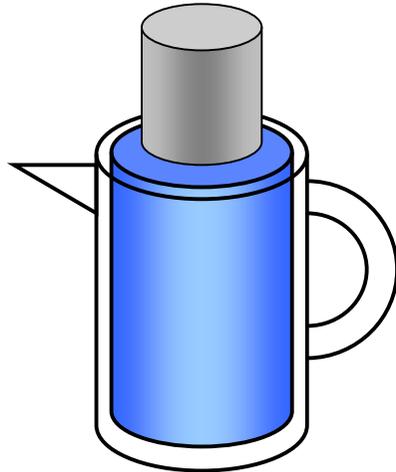


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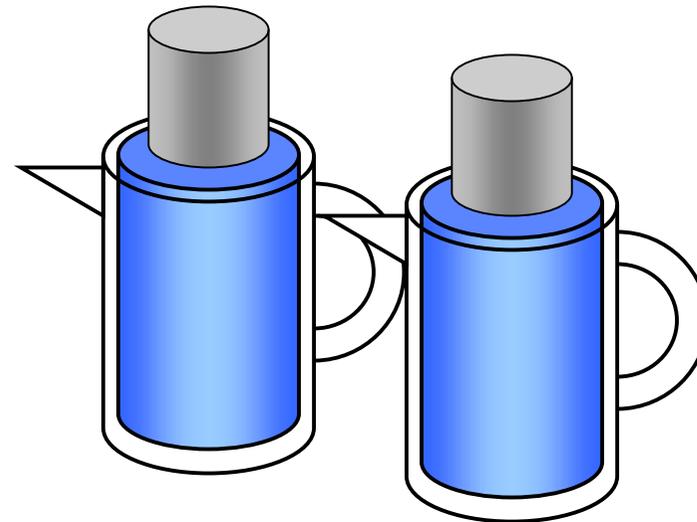
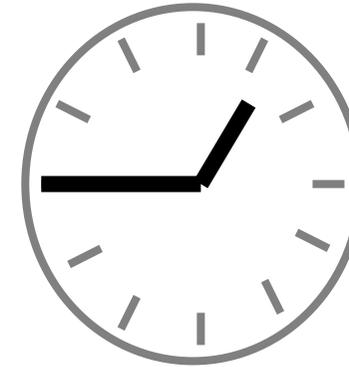


12

Koinzidenz-Messung

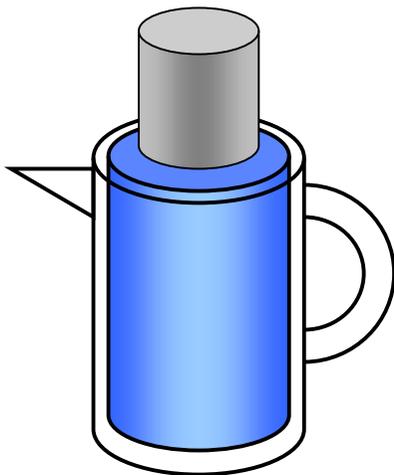
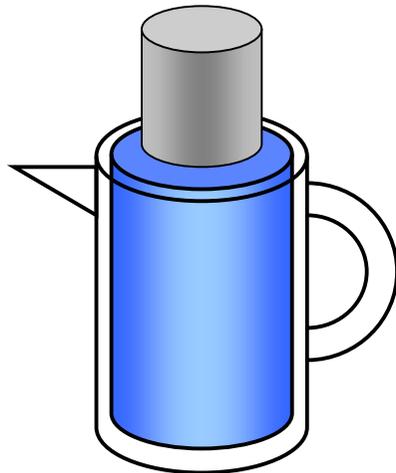


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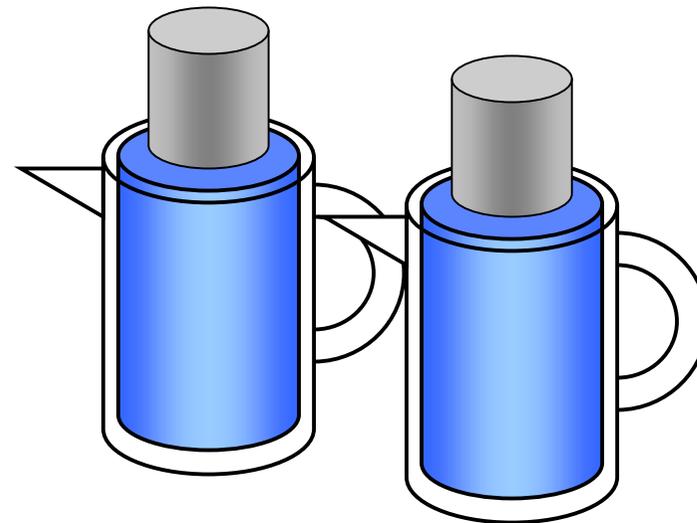
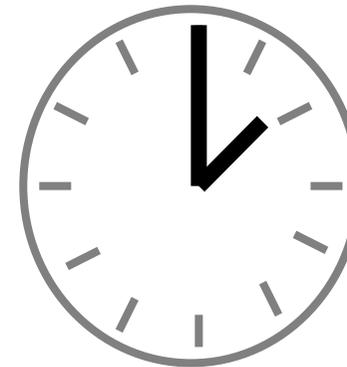


27

Koinzidenz-Messung

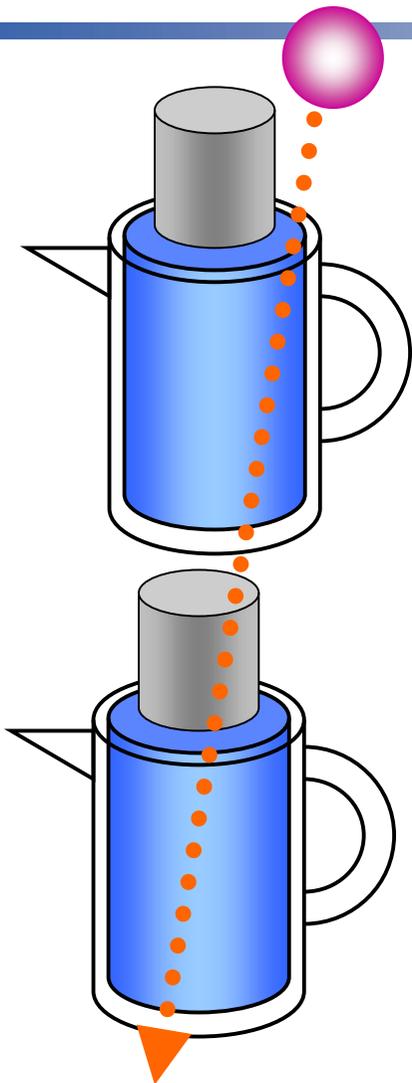


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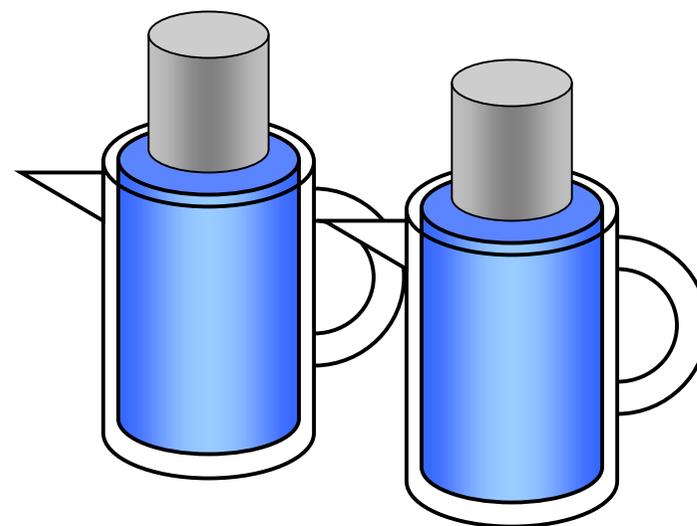
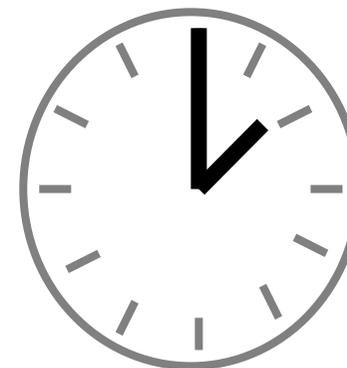


38

Koinzidenz-Messung

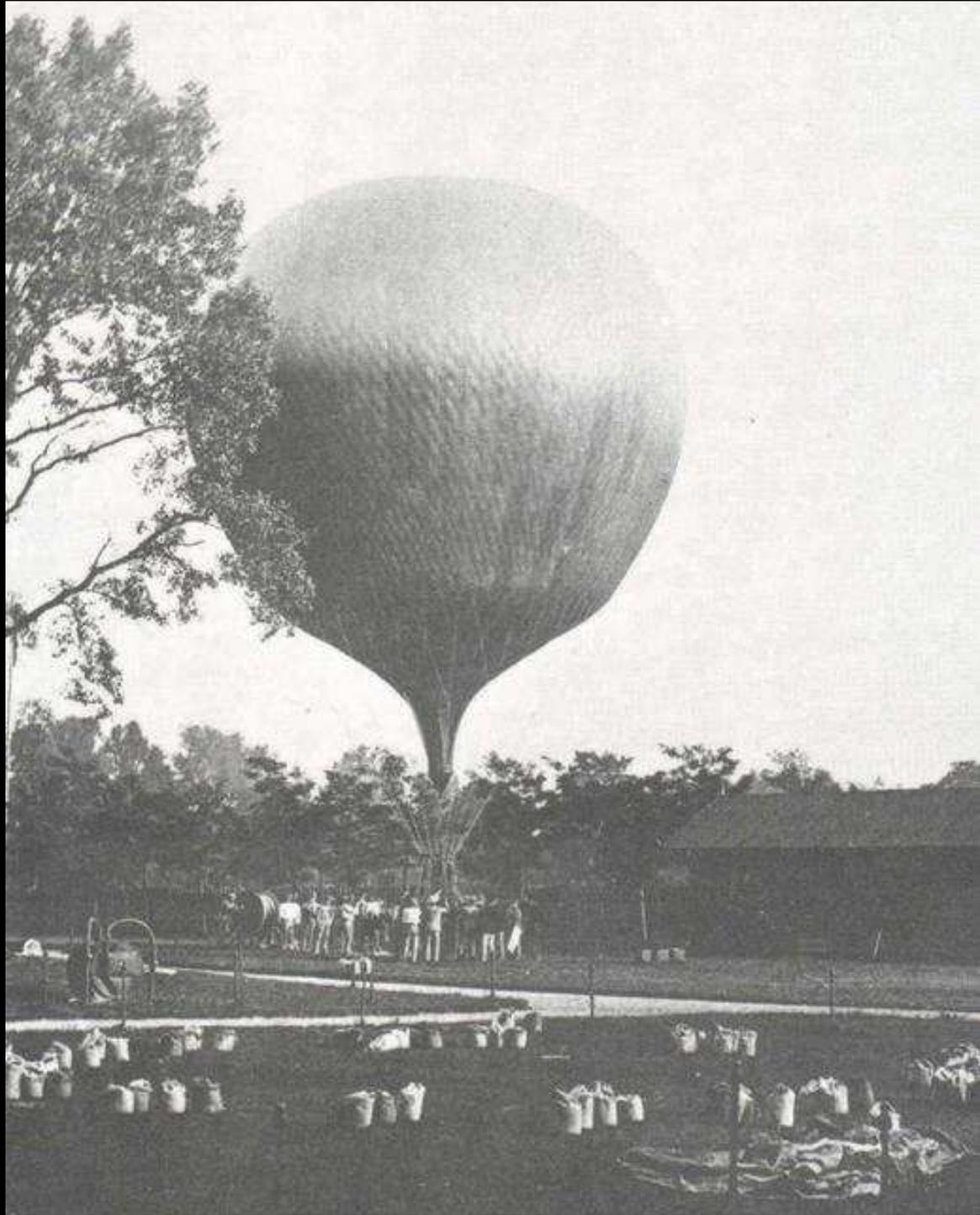


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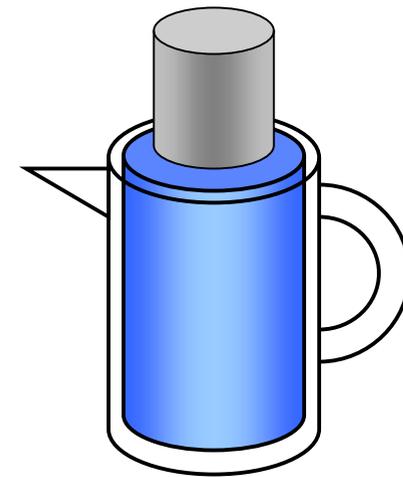
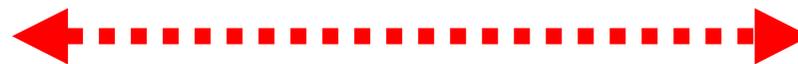
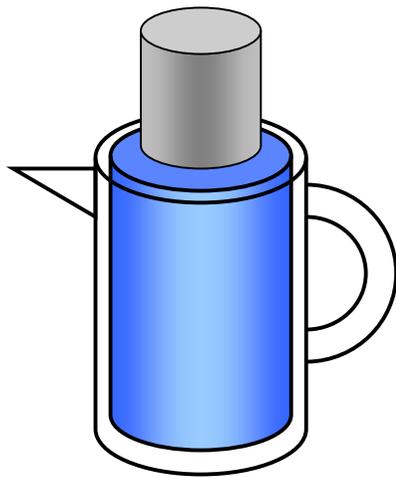
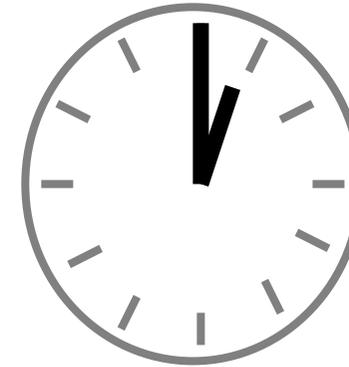


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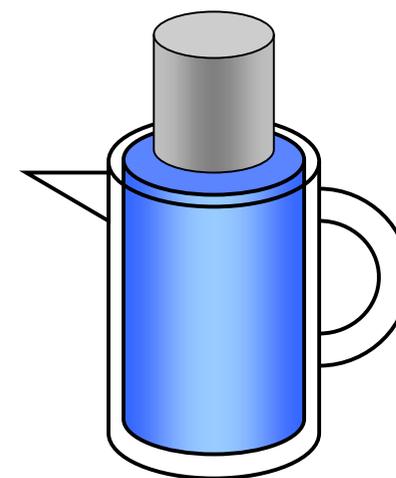
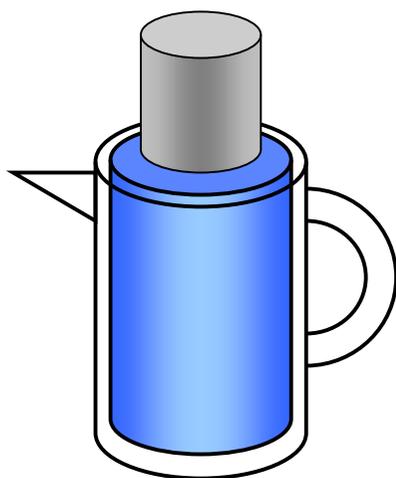
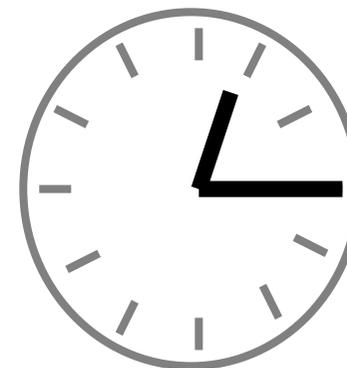




Koinzidenz-Messung II

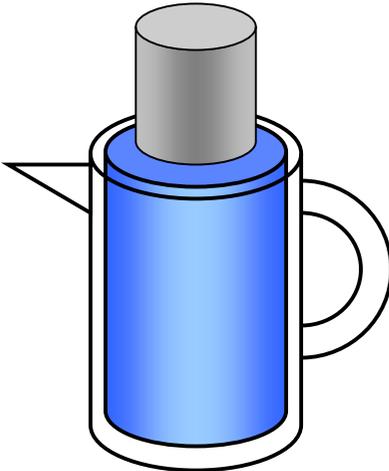
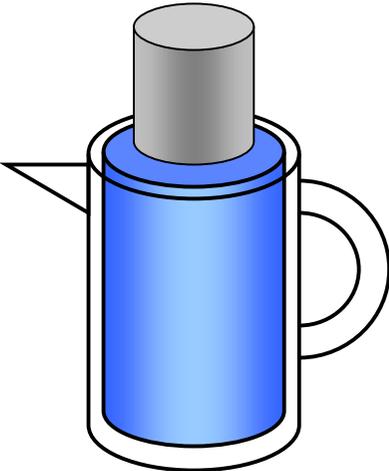


Koinzidenz-Messung II



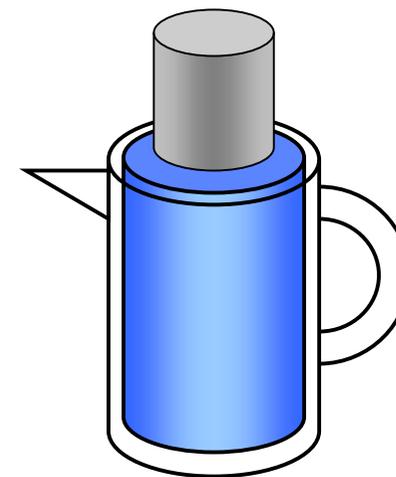
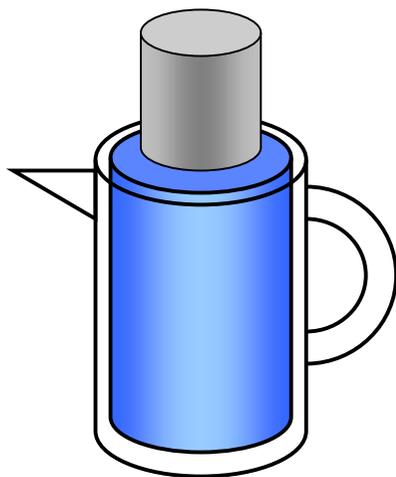
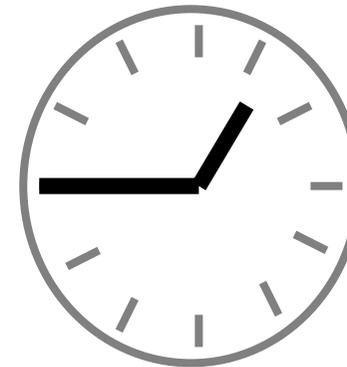
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Koinzidenz-Messung II



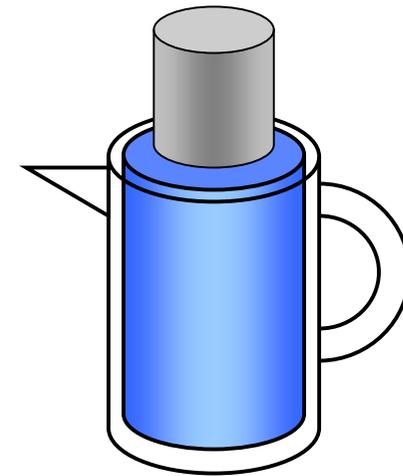
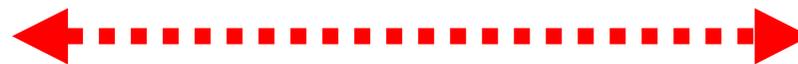
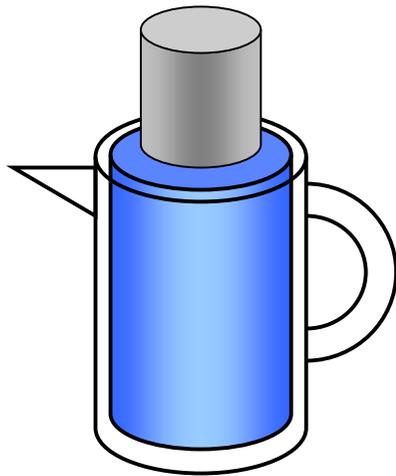
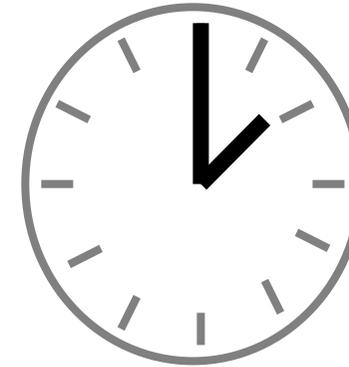
7

Koinzidenz-Messung II



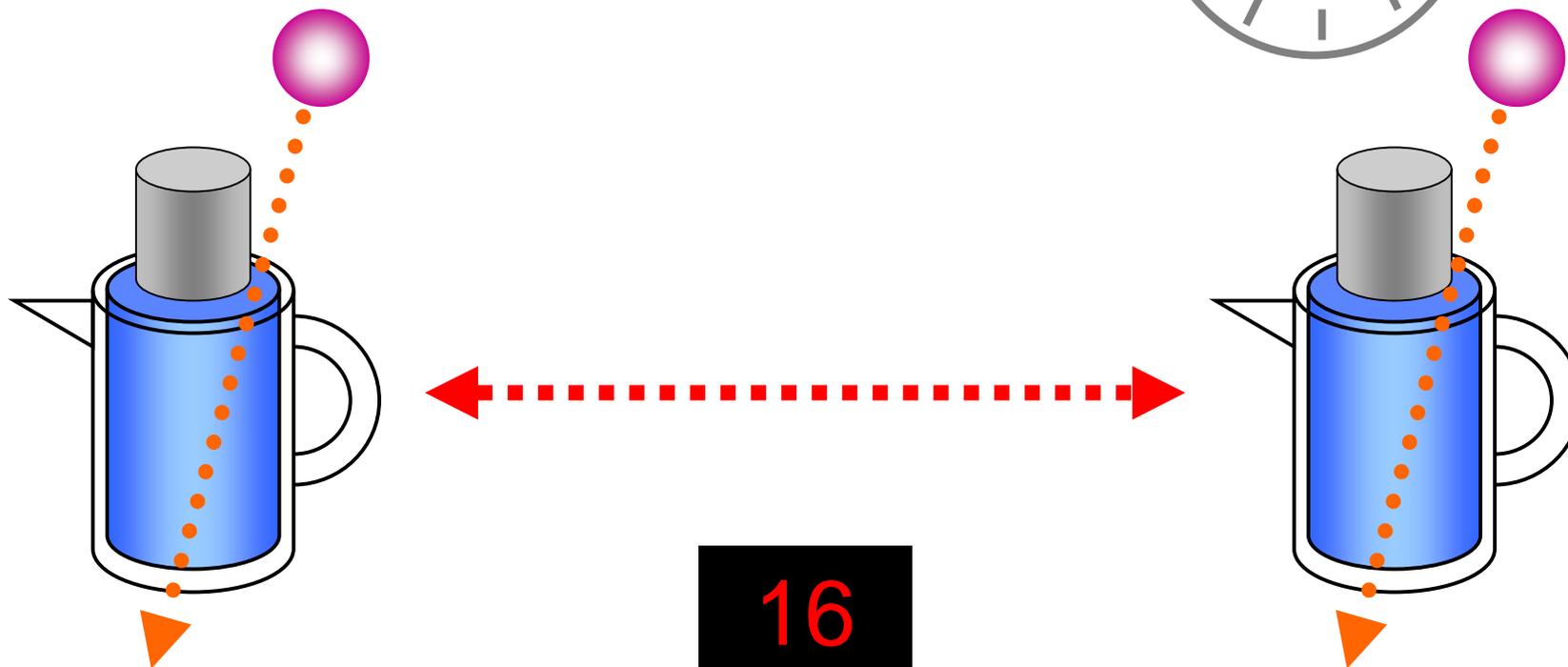
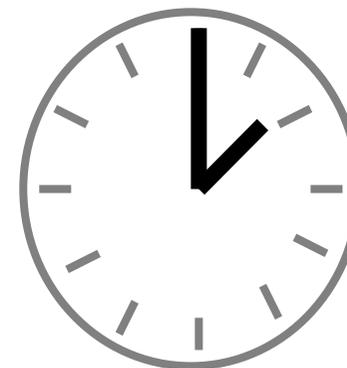
12

Koinzidenz-Messung II



16

Koinzidenz-Messung II



16



einfallendes Teilchen
der Primärstrahlung



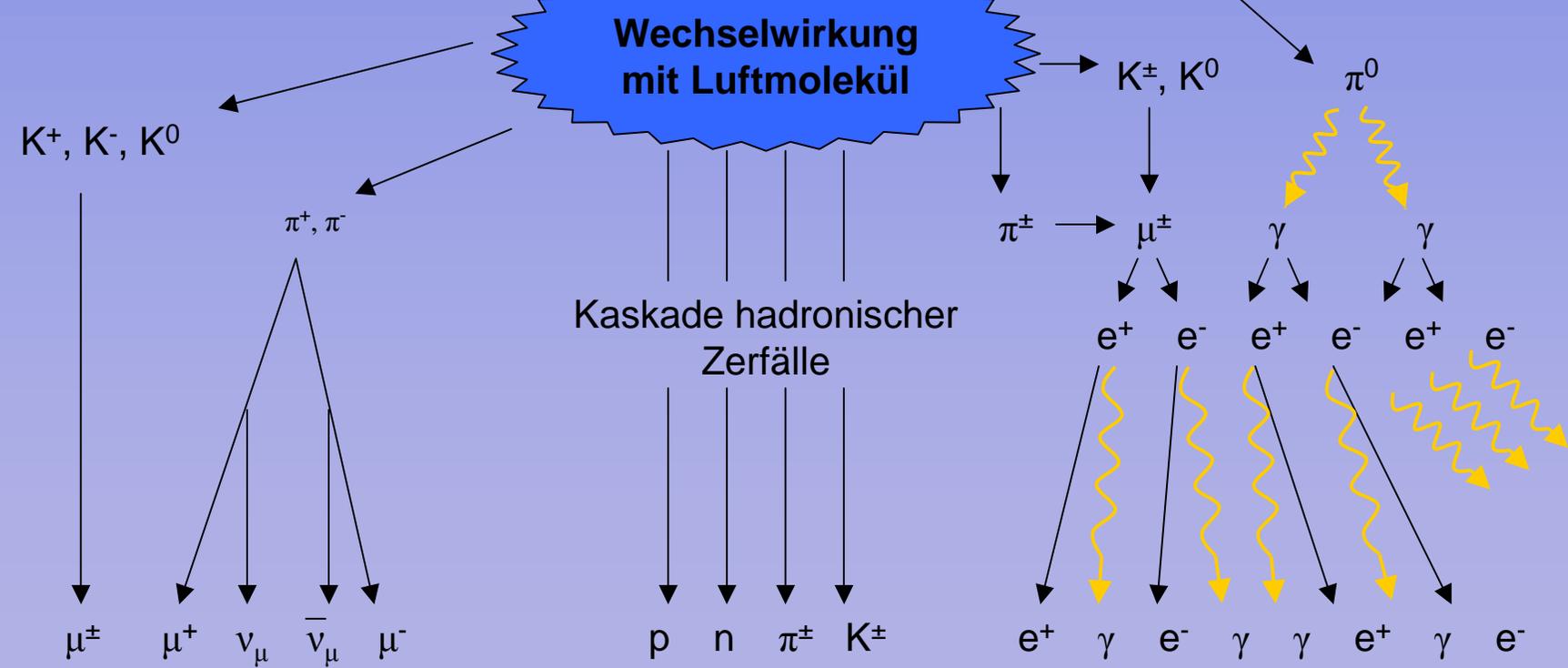
einfallendes Teilchen
der Primärstrahlung



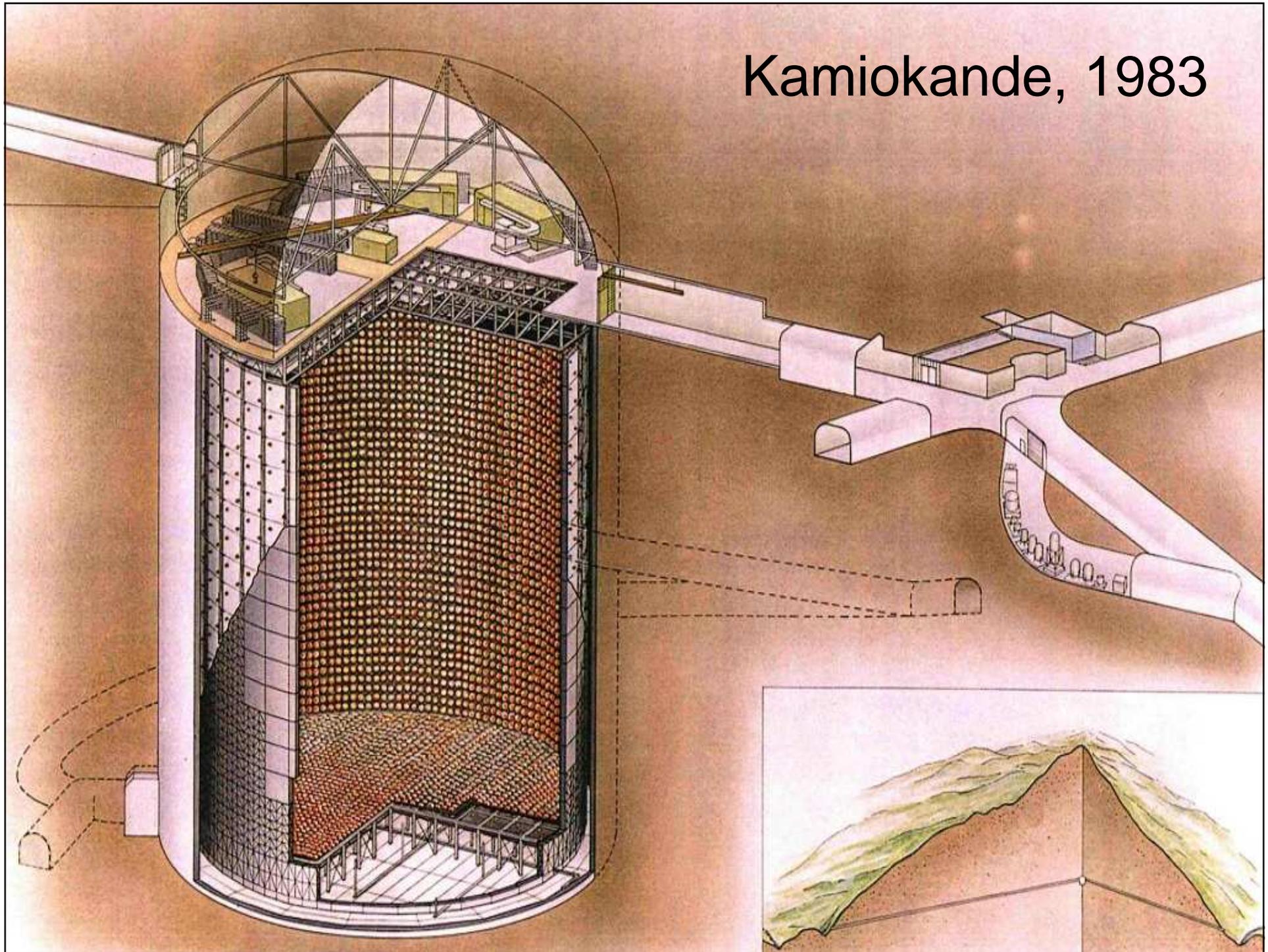
**Wechselwirkung
mit Luftmolekül**

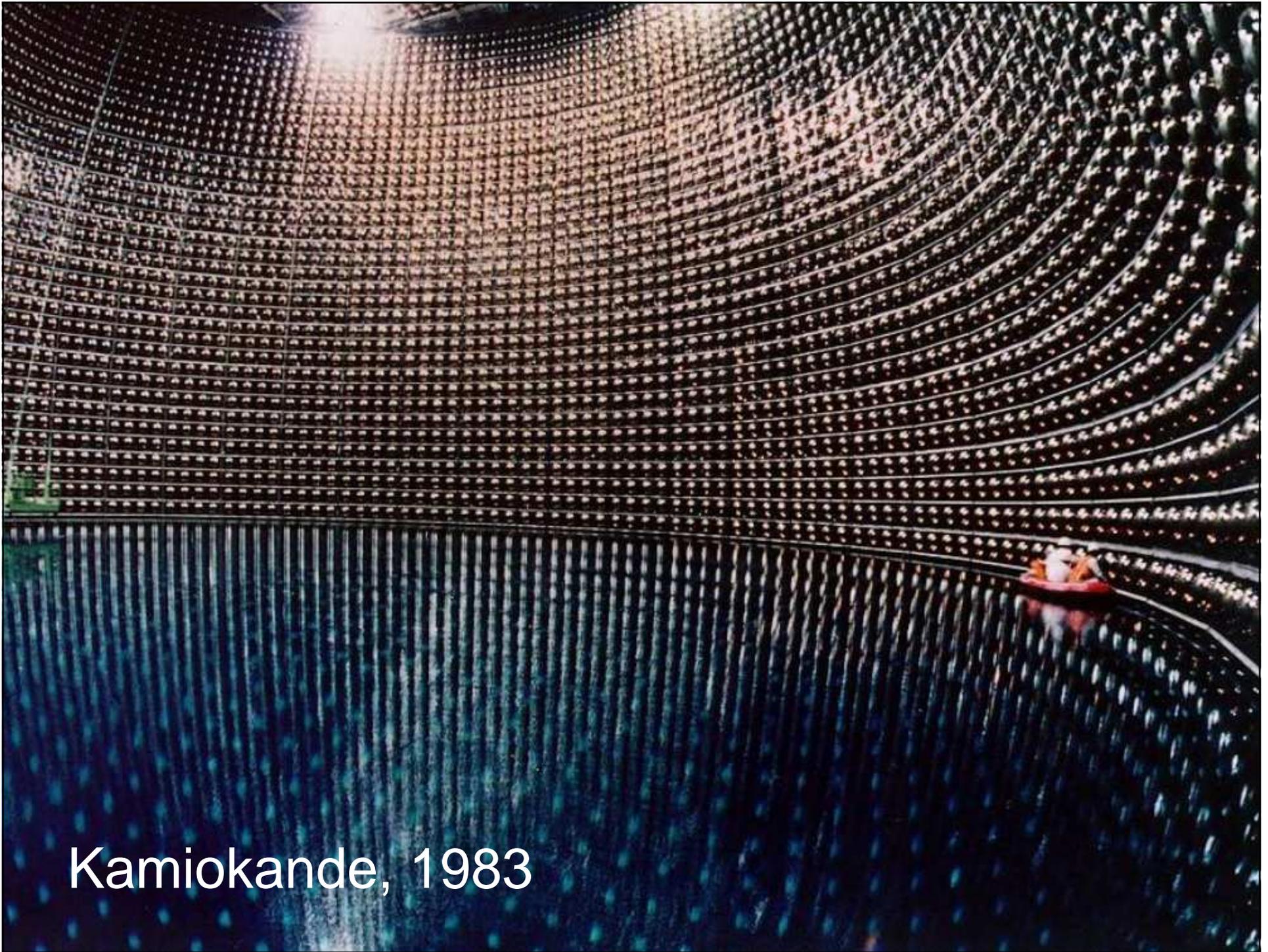


einfallendes Teilchen
der Primärstrahlung

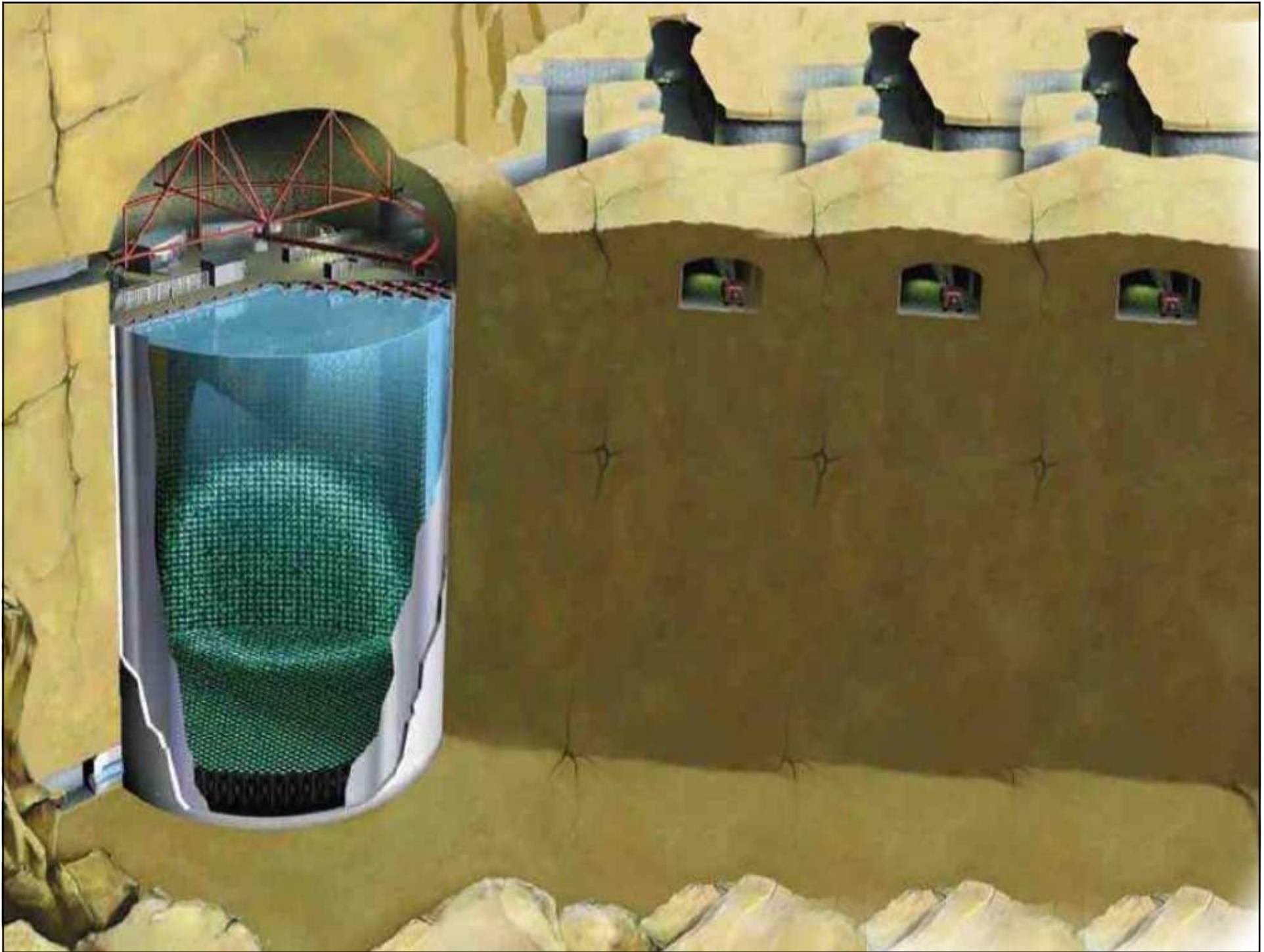


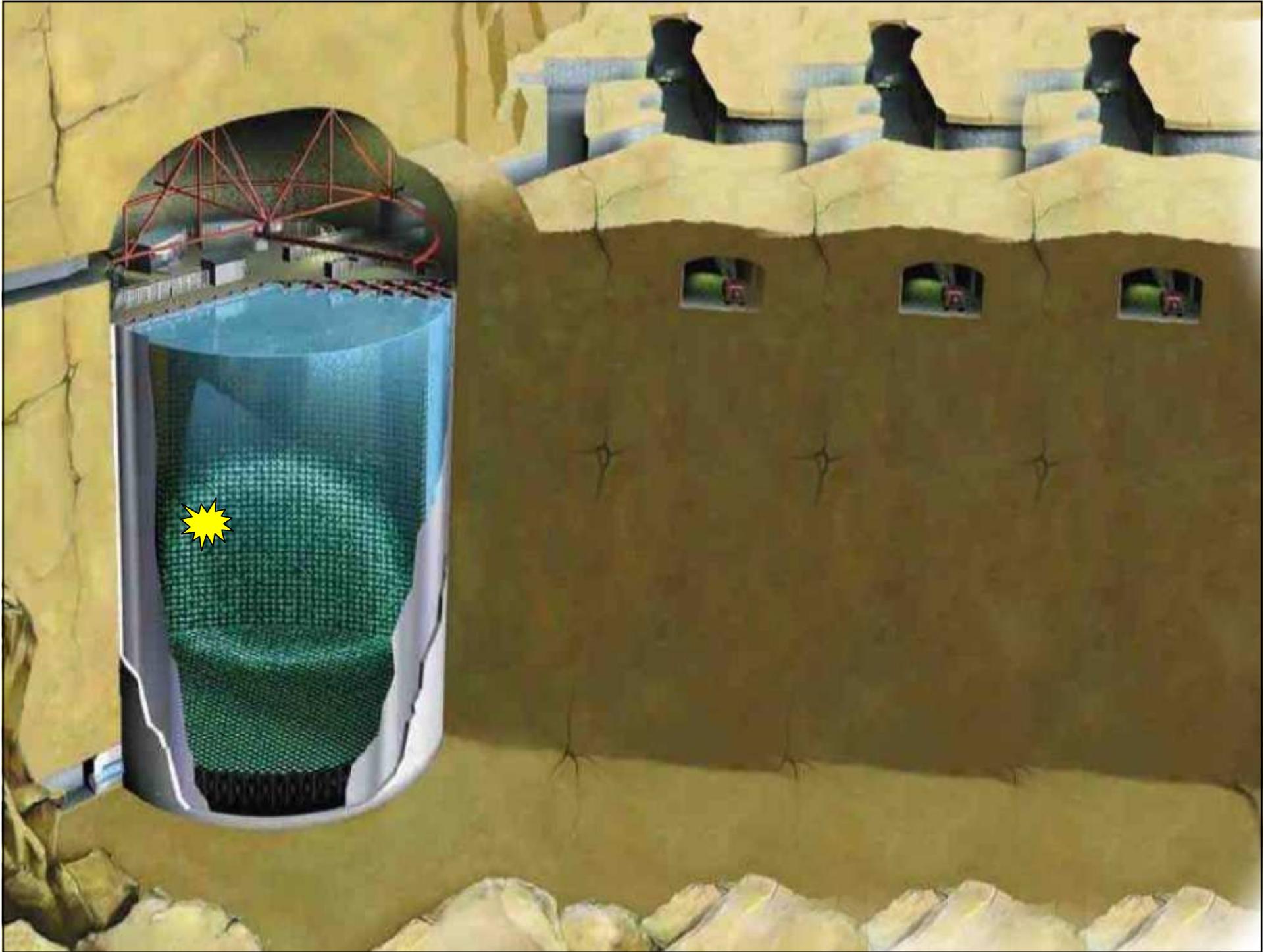
Kamiokande, 1983

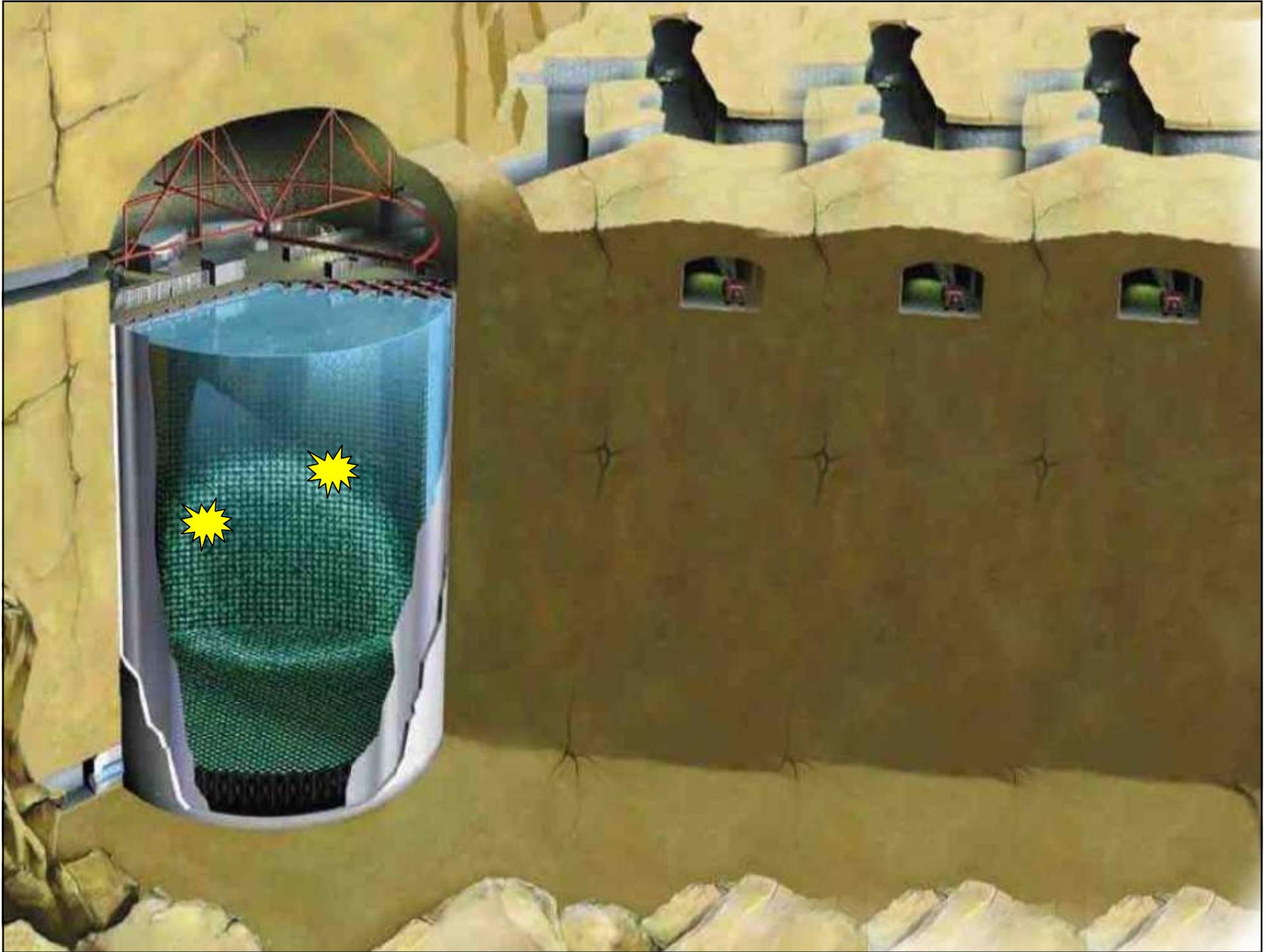


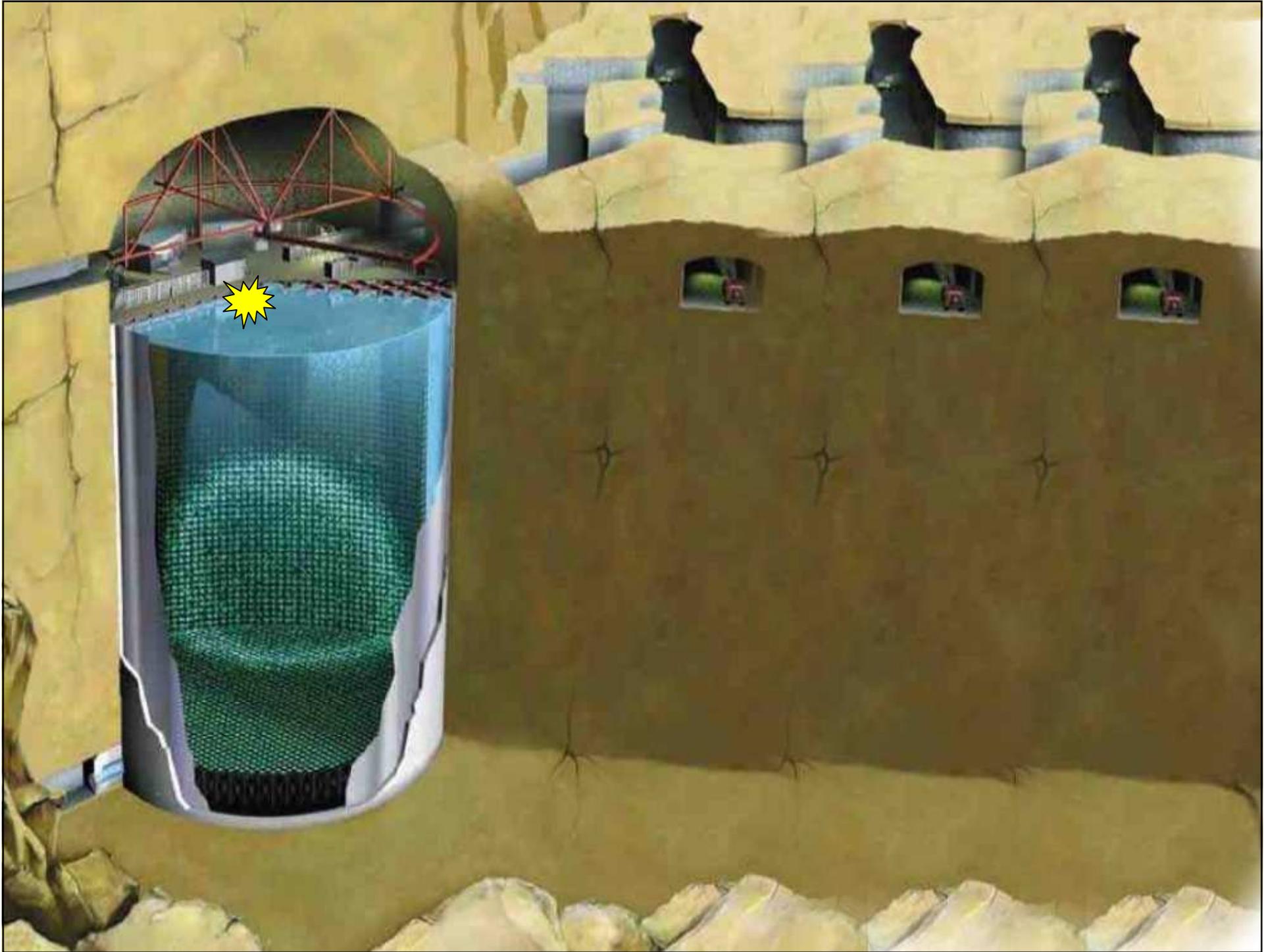


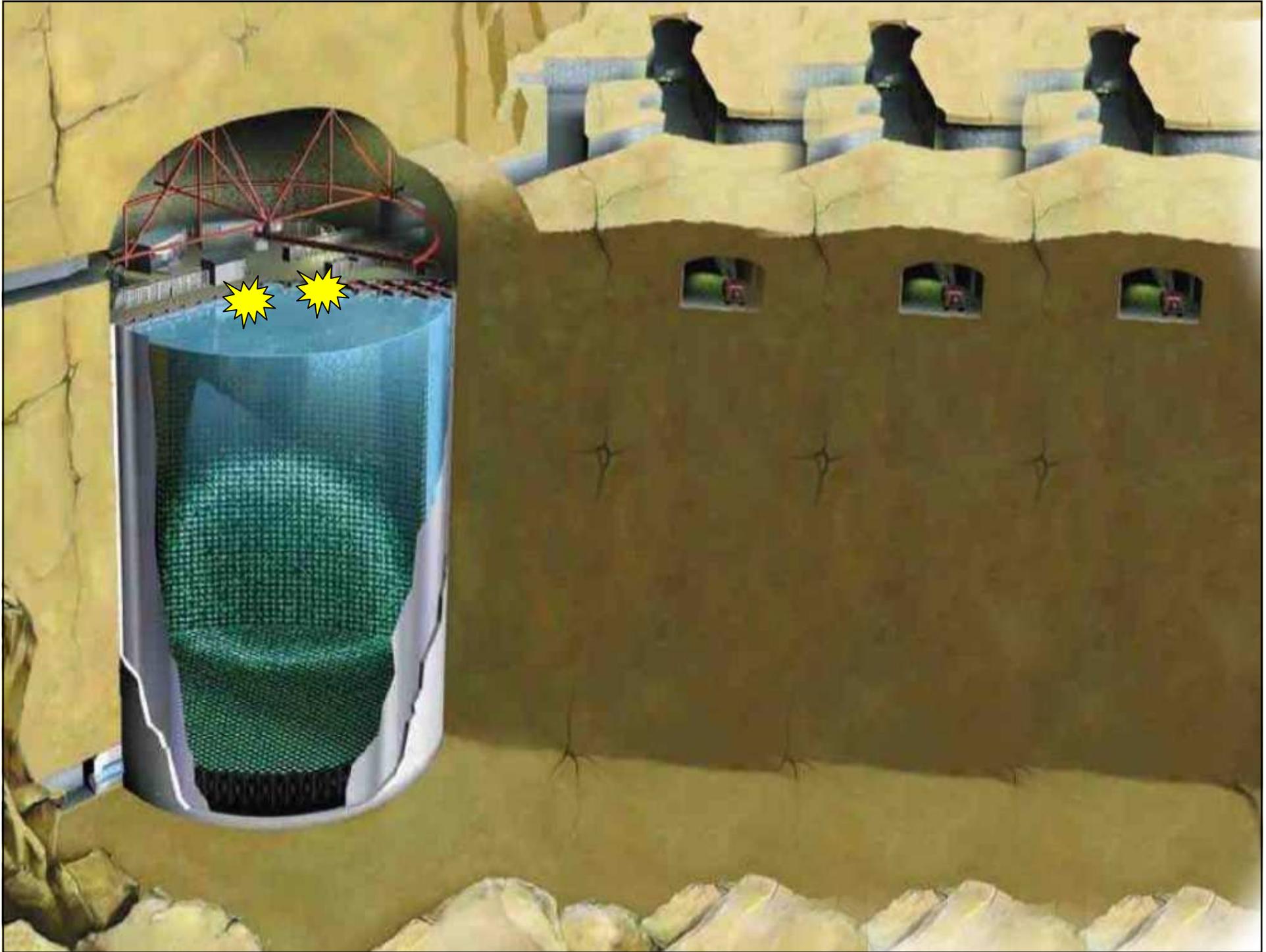
Kamiokande, 1983

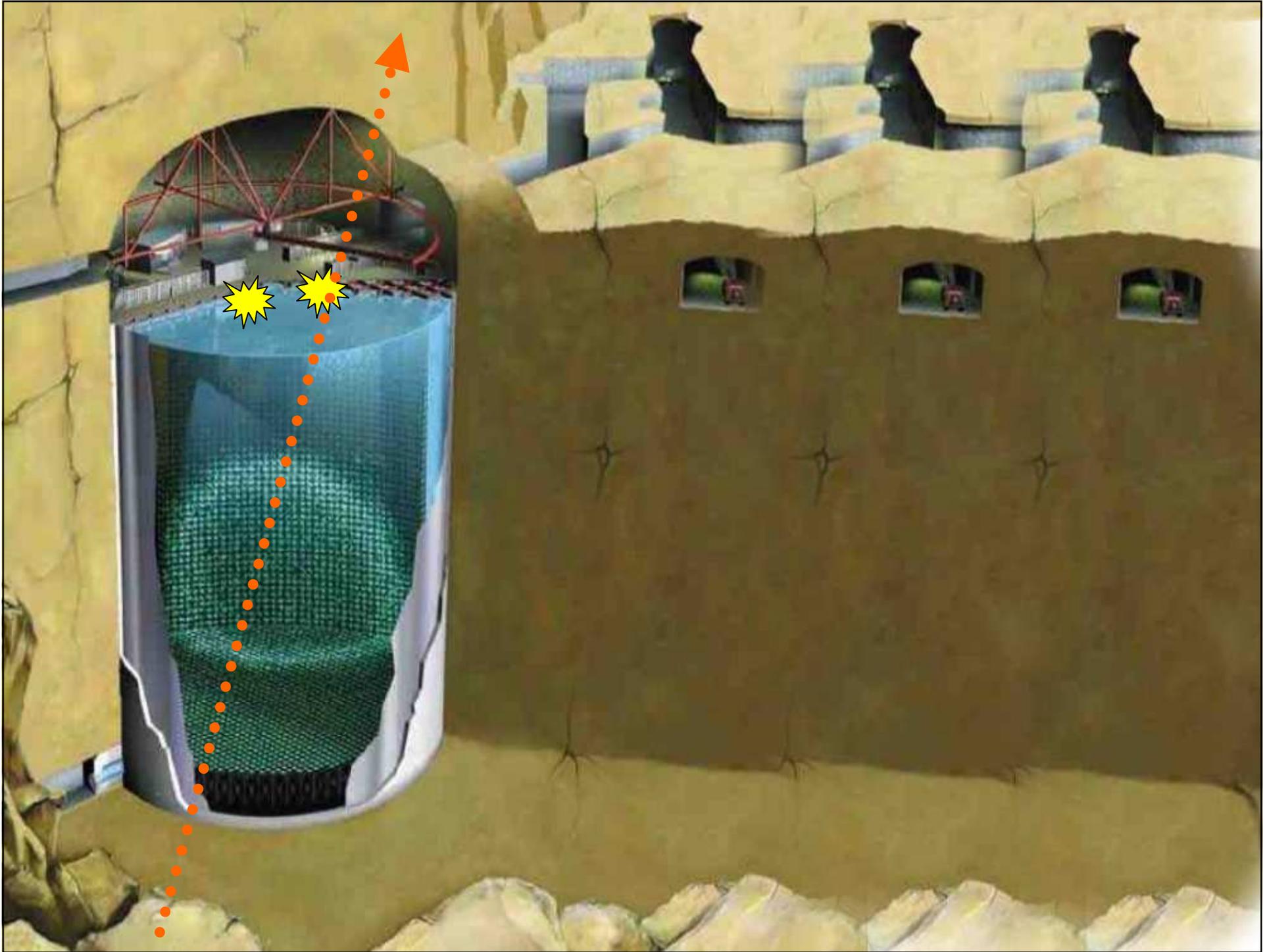


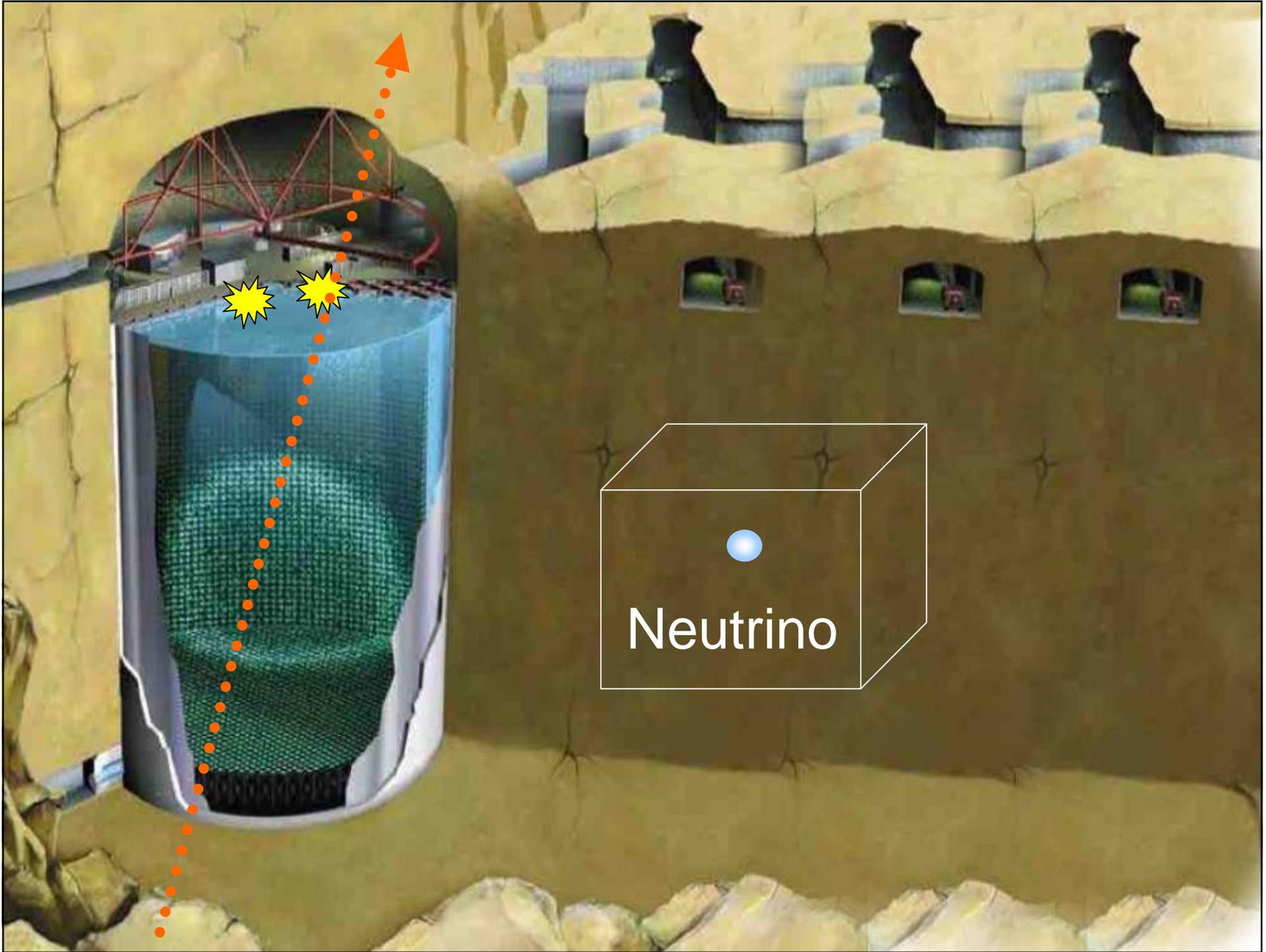


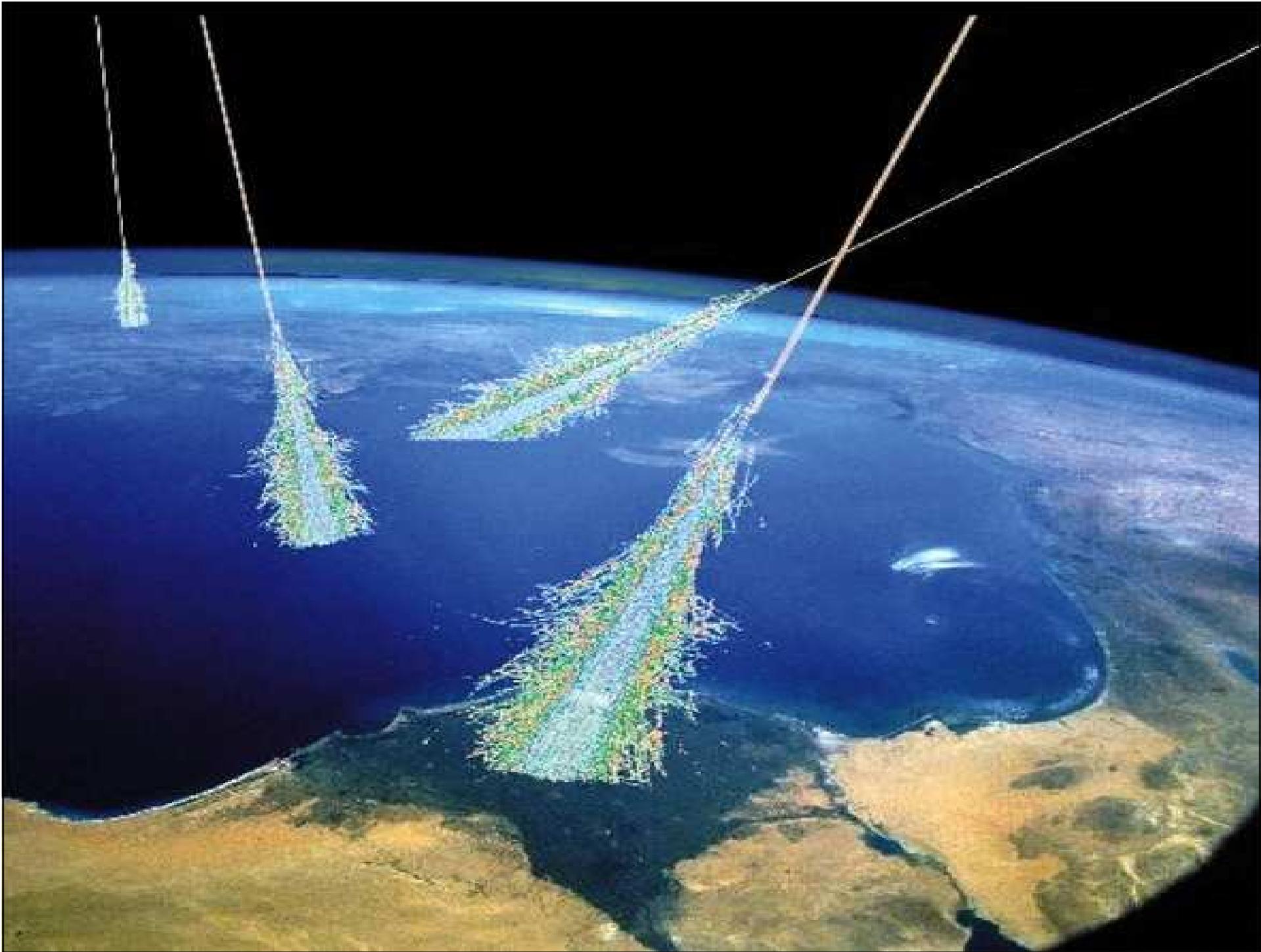










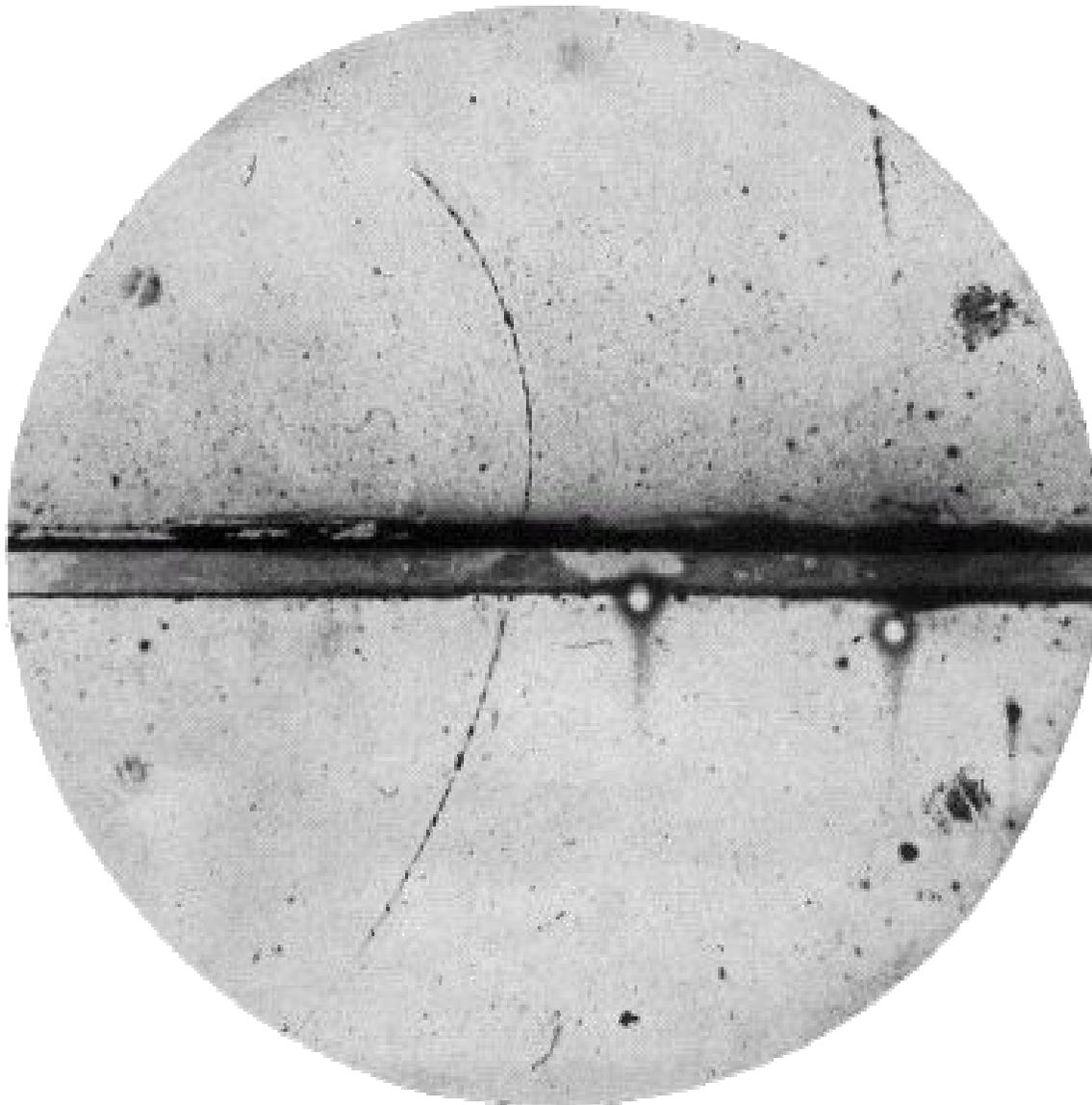


Pike's Peak (4300 m)



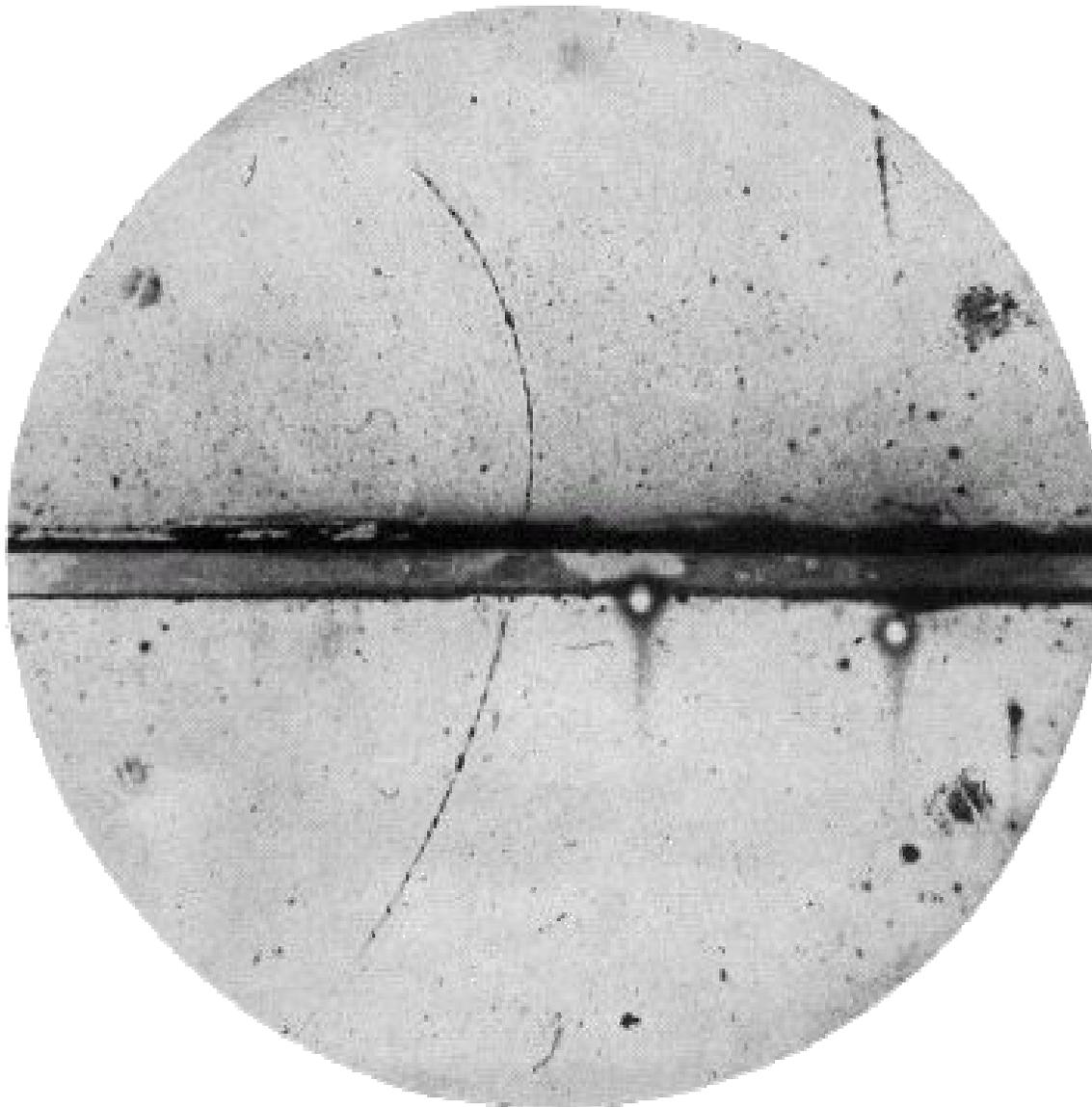
Carl Anderson, 1932

Antimaterie



Elektron

Antimaterie



Elektron



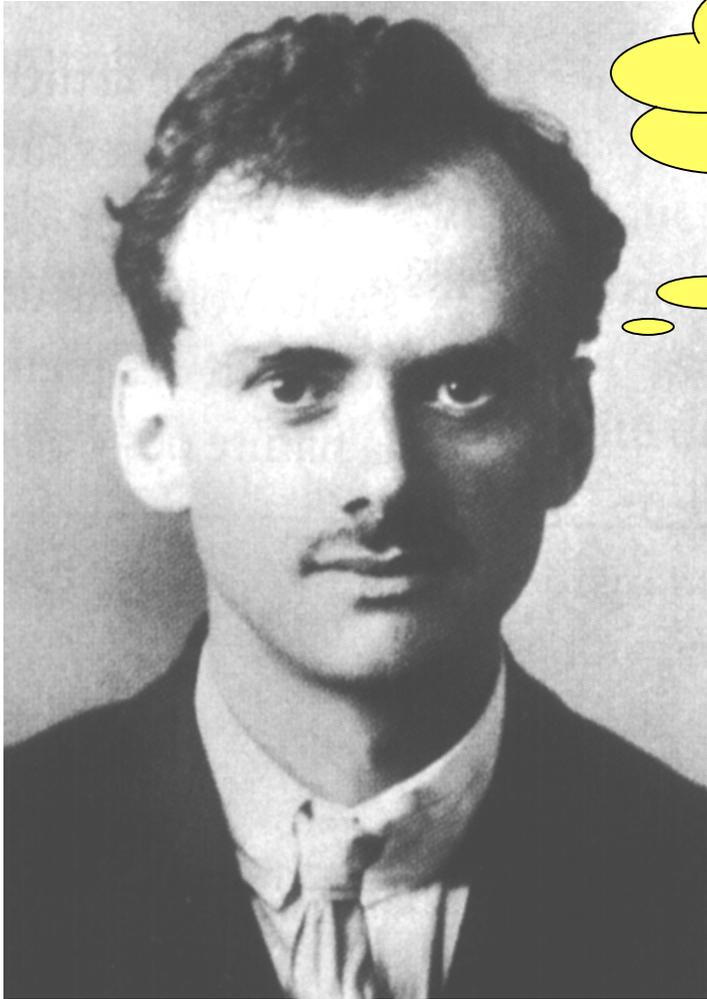
Positron

Antimaterie



Paul Dirac

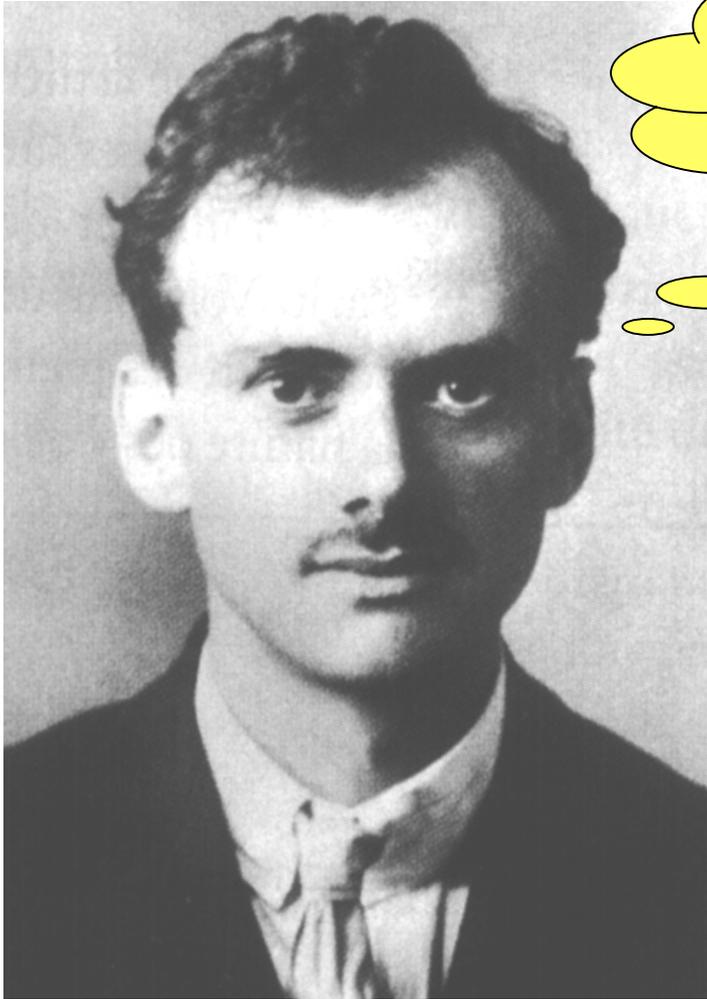
Antimaterie



Jedes Teilchen hat
ein Antiteilchen!

Paul Dirac

Antimaterie

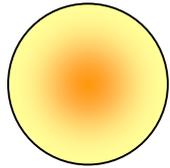


Jedes Teilchen hat
ein Antiteilchen!



Paul Dirac

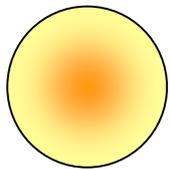
Standardmodell 1948



Neutron

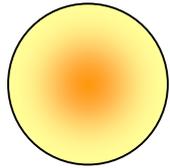


Elektron



Proton

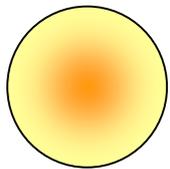
Standardmodell 1948



Neutron



Elektron

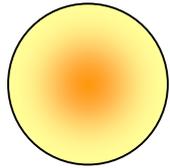


Proton



Myon

Standardmodell 1948



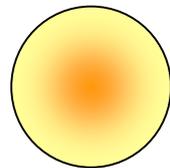
Neutron



Elektron



Neutrino

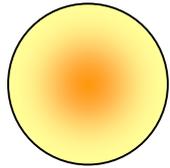


Proton



Myon

Standardmodell 1948



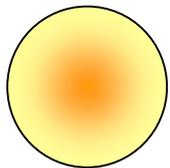
Neutron



Elektron



Neutrino



Proton



Myon

+ Antiteilchen