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Patrick White, PhD candidate

## Rethinking licensing and regulation for commercial fusion reactors

${}^2\text{H} + {}^3\text{H} \rightarrow {}^4\text{He} + \text{n} + 14.1\text{MeV}$

Zoom meeting 82145836365 Password: 42C1AF0C

18:00 PRAGUE JUN 30

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**Title:** Rethinking licensing and regulations for commercial fusion reactors

**Speaker:** Patrick White, PhD candidate at MIT

**When:** 2020-06-30 18:00:00

**Abstract:** Successful commercial development of fusion energy will require us to find new ways to license and regulate fusion technology that enables innovative and economically viable designs. Fusion energy will likely have unique safety challenges related to the radioactive tritium used as fuel in most proposed commercial reactors. If we want to develop safe and economically competitive fusion energy, we need to incorporate safety and possible regulatory constraints on fusion technology early in the design process. This talk will discuss the major off-site hazards related to commercial fusion technology, what regulatory tools we can use to demonstrate the safety of fusion technology, and how these regulations could affect the design of future fusion power plan.

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