

# Constructing a Physics Expertise Model

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## Communities of Practice<sup>1</sup> (COP) Perspective

- A general physics COP encompasses the specific physics subfields.
- Subfields like Nuclear physics and High Energy physics are also their own communities of practice.
- Each subfield follows the Legitimate Peripheral Participation<sup>2</sup> (LPP) model to expertise

## Physics Expertise Model; Results from a Qualitative Interview Study

### Specific Physics Expert

The first step towards expertise is becoming a specific physics expert in a physics subfield through the LPP model.

### General Physics Expert

Through the development of a specific physics expertise one attains general physics expert characteristics.

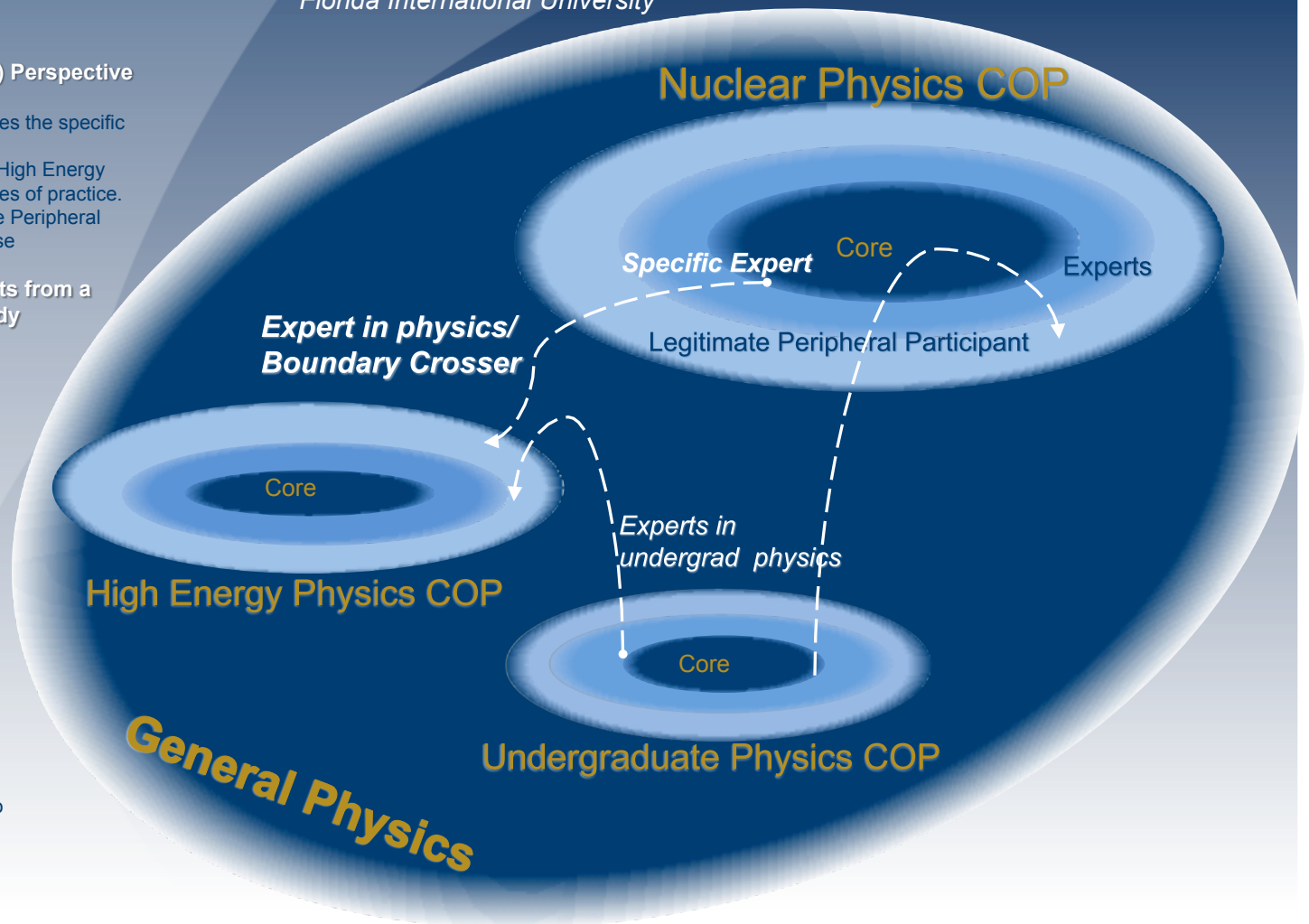
### Boundary Crosser/ Expert in Physics

A boundary crosser is one that can take elements and concepts from one community of practice to another; an expert in physics is a boundary crosser.

## References

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1. Wenger, E., *Communities of practice. Learning, meaning, and identity*, New York: Cambridge University Press, 1998.
2. Lave, J., and Wenger, E., *Situated learning. Legitimate peripheral participation*, Cambridge: Cambridge University Press, 1991.



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