



Introduction to the workshop

J. G. Contreras
[Czech Technical University in Prague](#)

September 14, 2020

Goals and new members

Třetí miniworkshop difrakce a ultraperiferálních srážek

📅 14 Sep 2020, 14:00 → 16 Sep 2020, 17:00 Europe/Prague

📍 ČVUT Děčín

👤 Dagmar Bendová (CTU FNSPE) , Guillermo Contreras Nuno , Jan Čepila (CTU FNSPE)

Description Workshop will address topics in phenomenology and data analysis techniques used in diffractive processes as well as ultra-peripheral collisions. It will have colloquial character with emphasis on discussing various tools and approaches used in the field. Majority talks will be covered by students.

Participants

👤 Daniel Mihatsch	👤 David Grund	👤 David Horák	👤 Diana Krupová	👤 Katarína Křížková Gajdošová
👤 Marek Matas	👤 Matěj Vaculčiak	👤 Michal Broz	👤 Michal Křelina	👤 Radim Dvořák
👤 Solangel Torres Rojas	👤 Tomáš Herman	👤 Vendulka Fílová	👤 Vojtěch Zabloudil	👤 Roman Lavička

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Main focus of our research

QCD

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Structure of nuclear and nucleon matter

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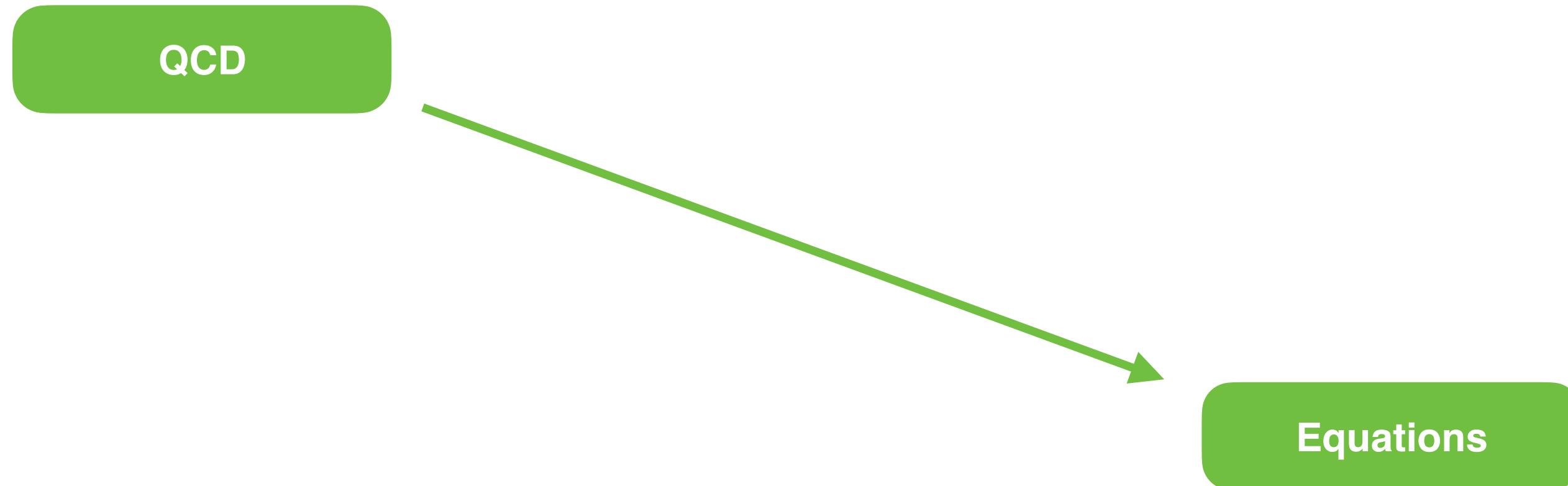
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Structure of nuclear and nucleon matter

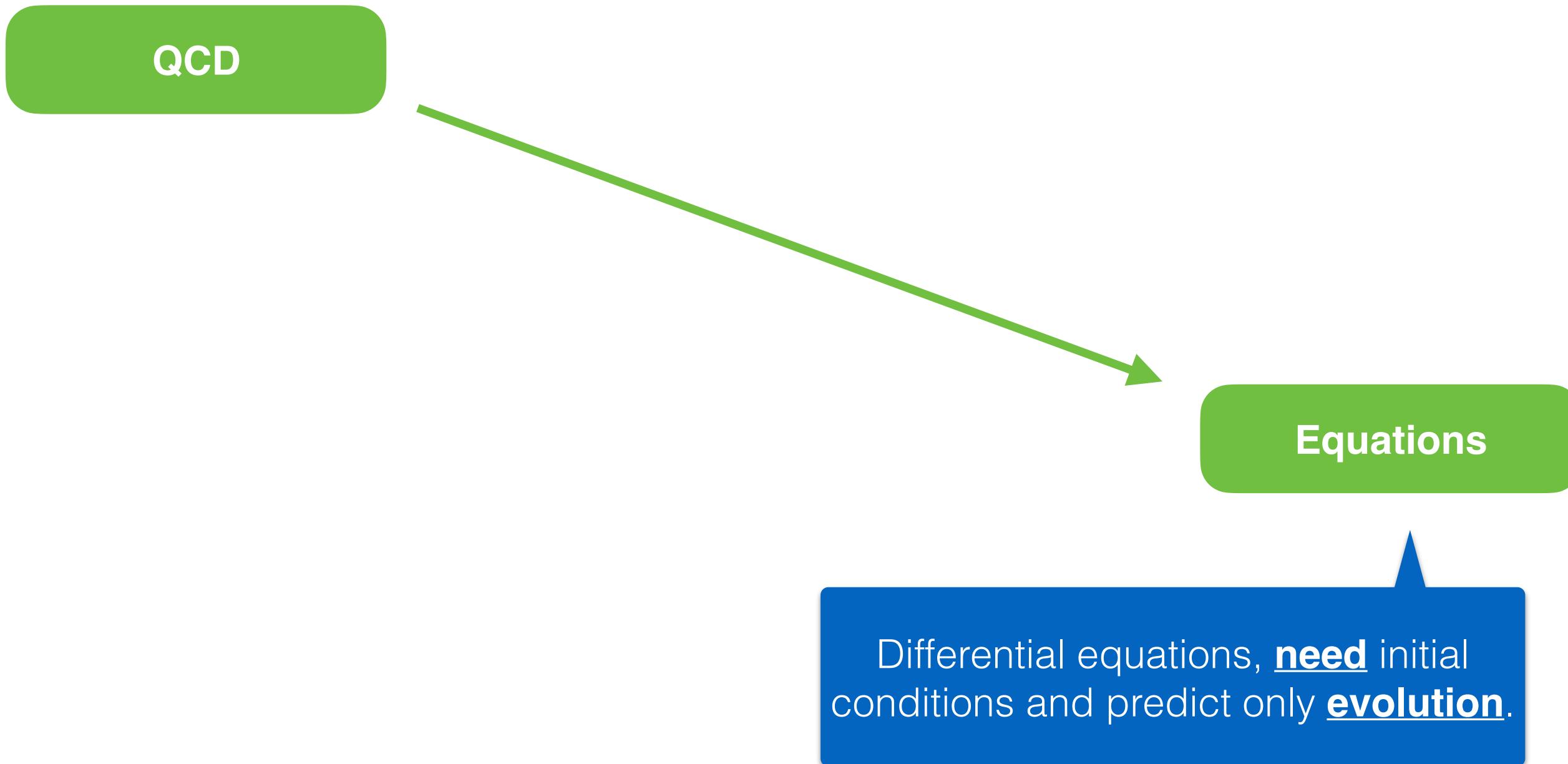
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How? The structure of matter in terms of quark and gluons changes with the energy (density) of the interaction used to study them.

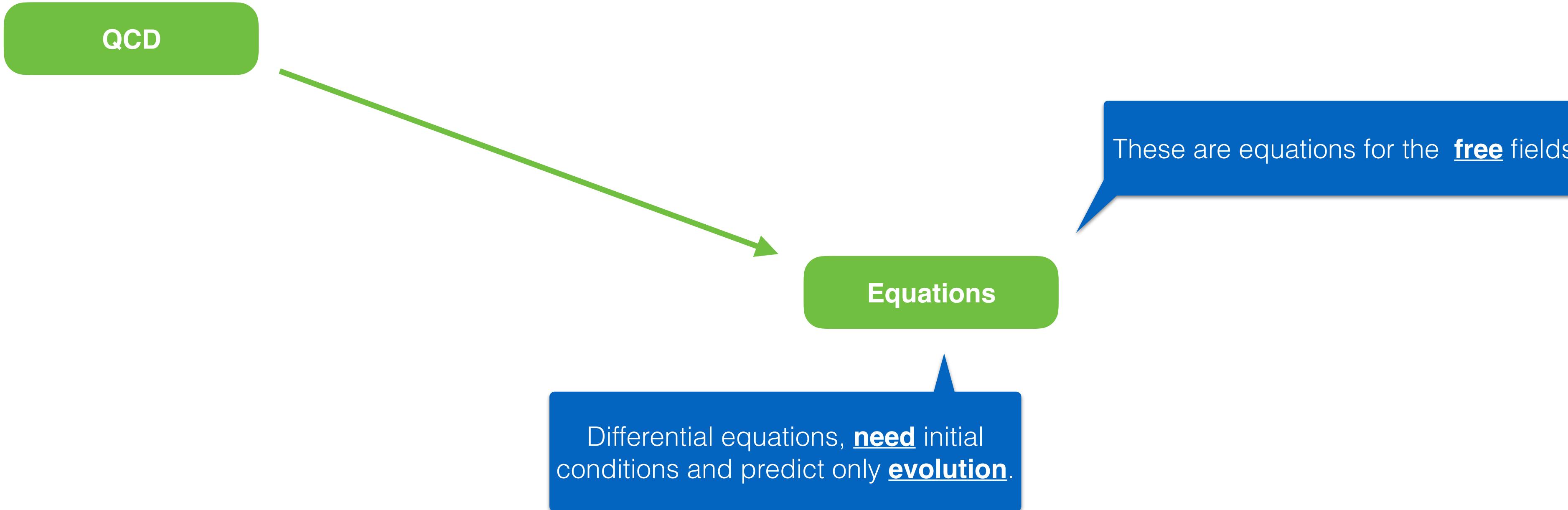
A sketch of QCD in practice



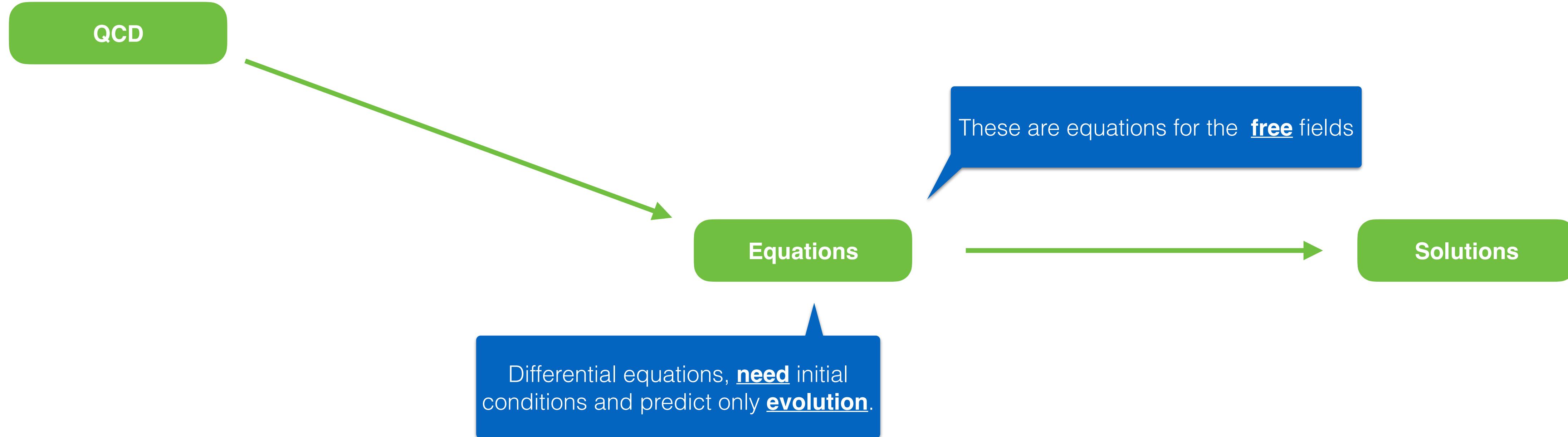
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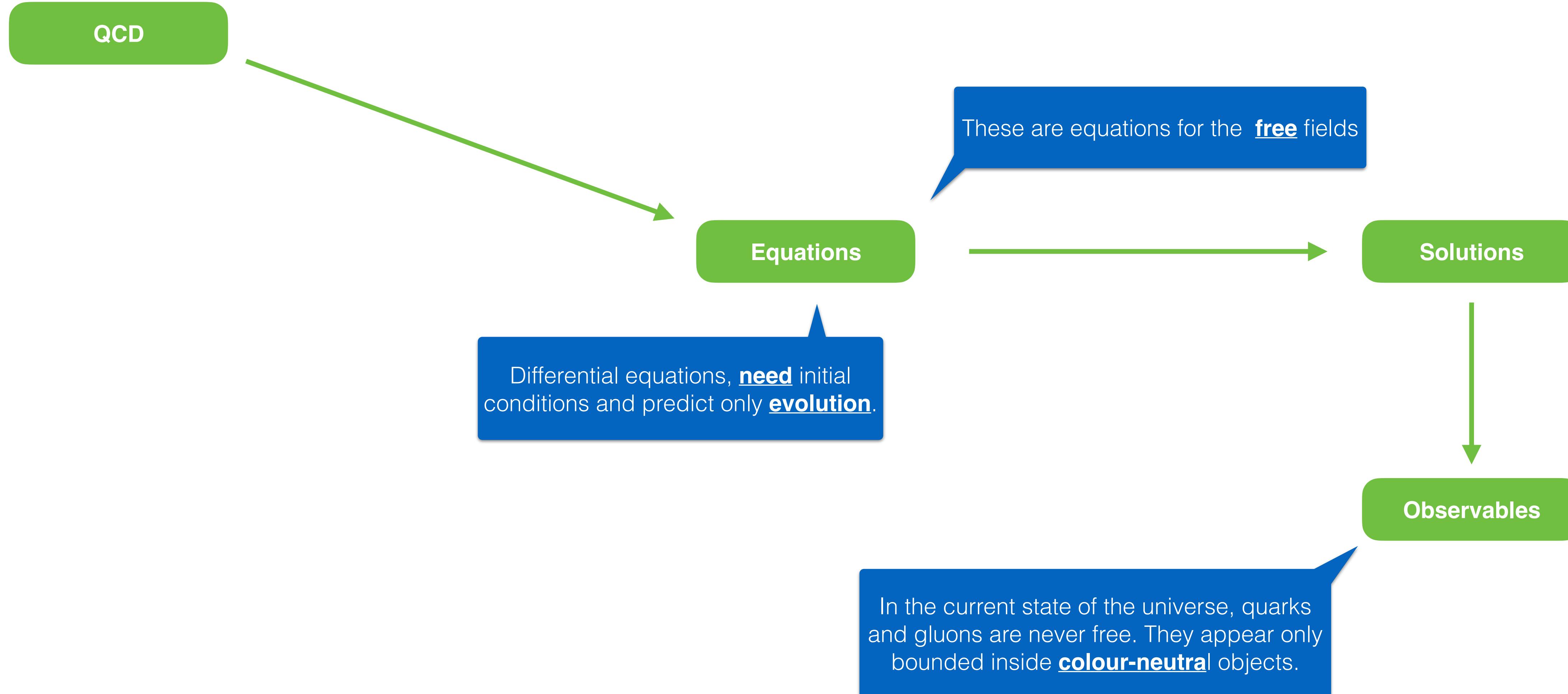
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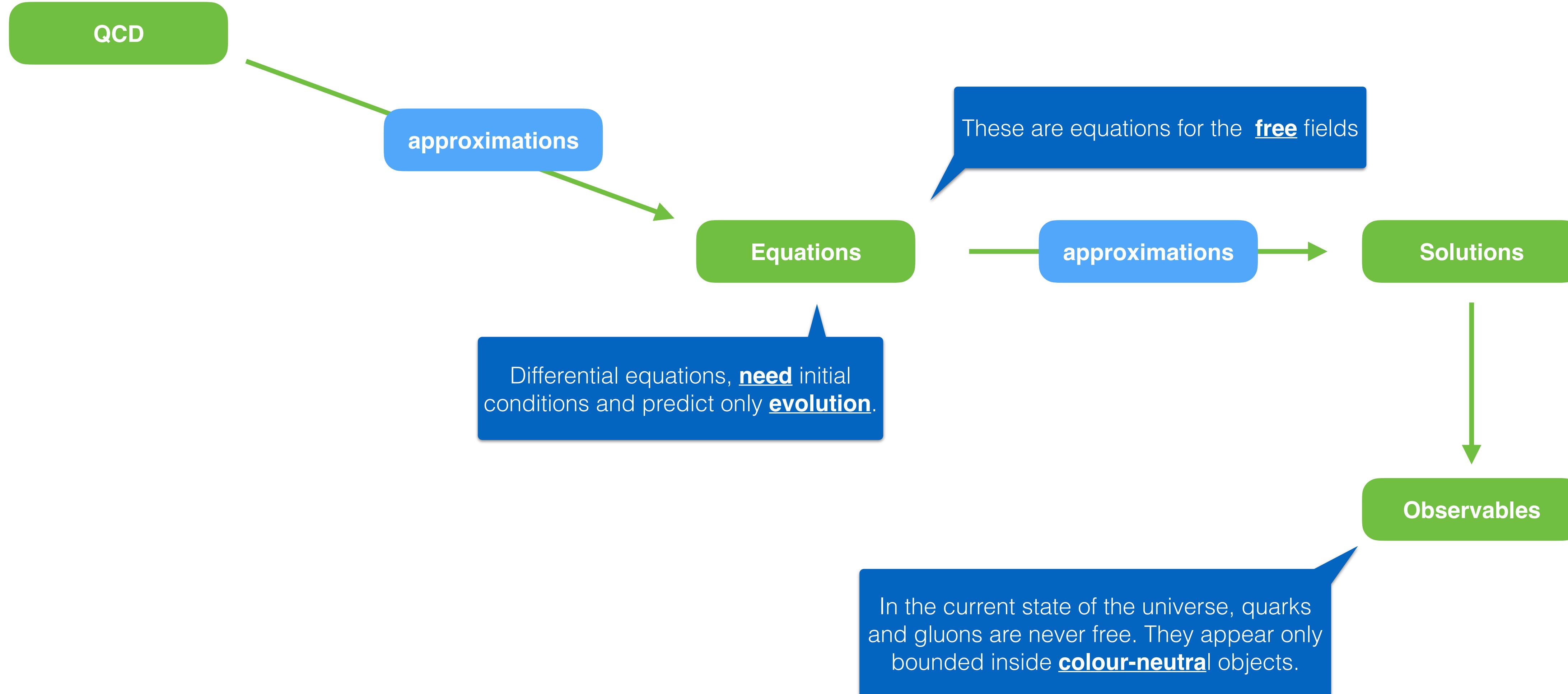
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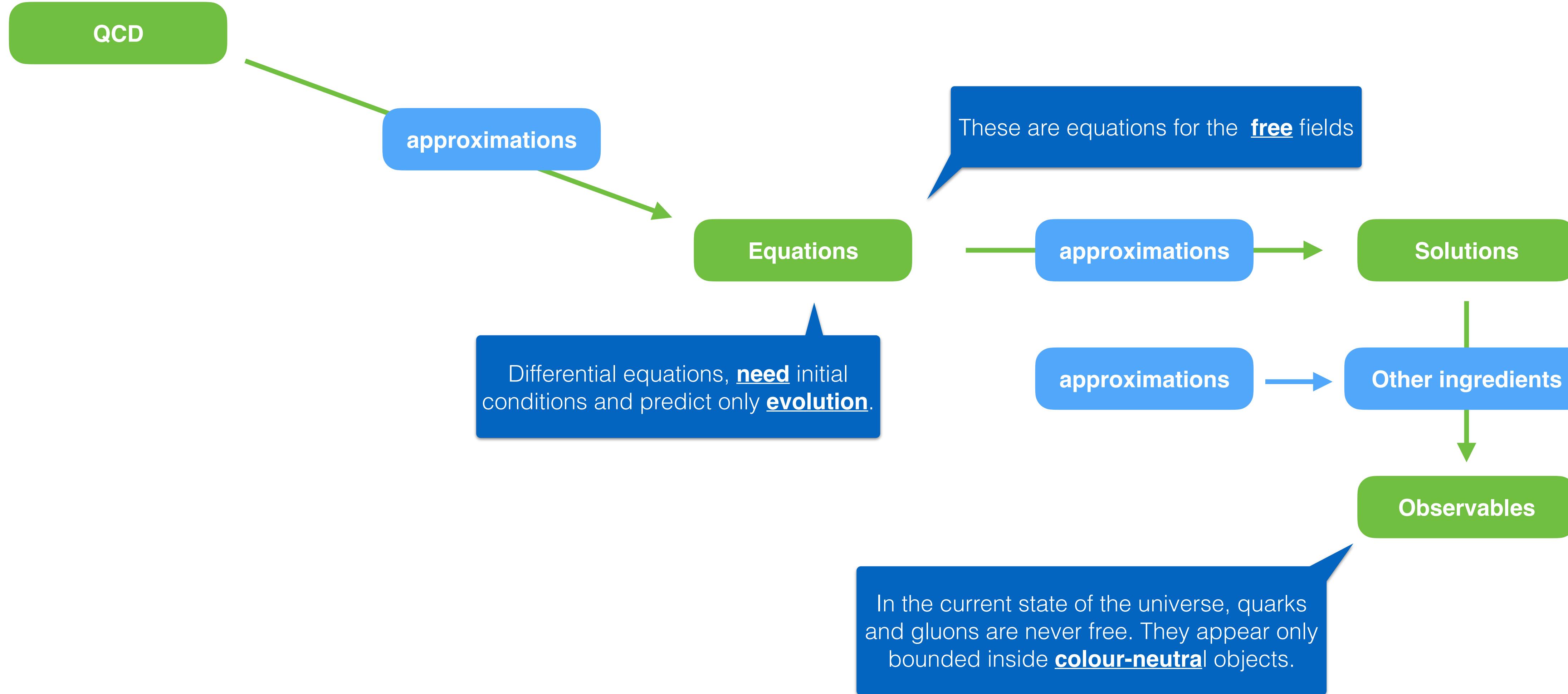
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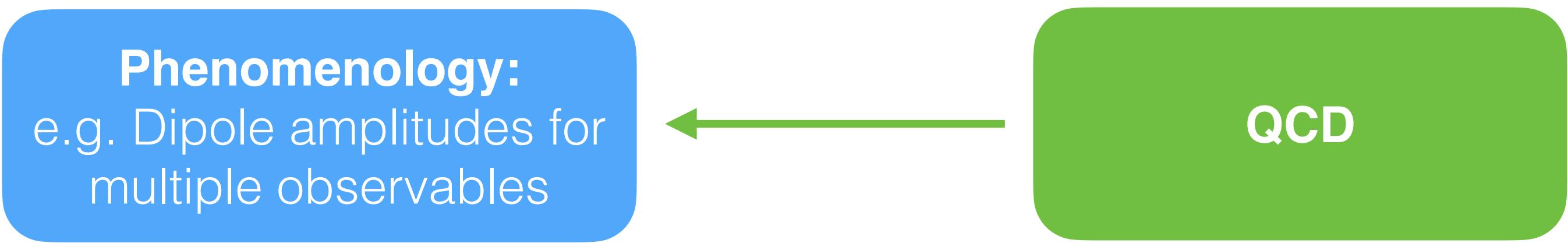
A sketch of QCD in practice



Specific areas of research

QCD

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Specific areas of research

To solve the equations of QCD is quite difficult. One alternative is to use QCD inspired models to study in detail some aspect of the structure of matter

Phenomenology:
e.g. Dipole amplitudes for multiple observables

QCD



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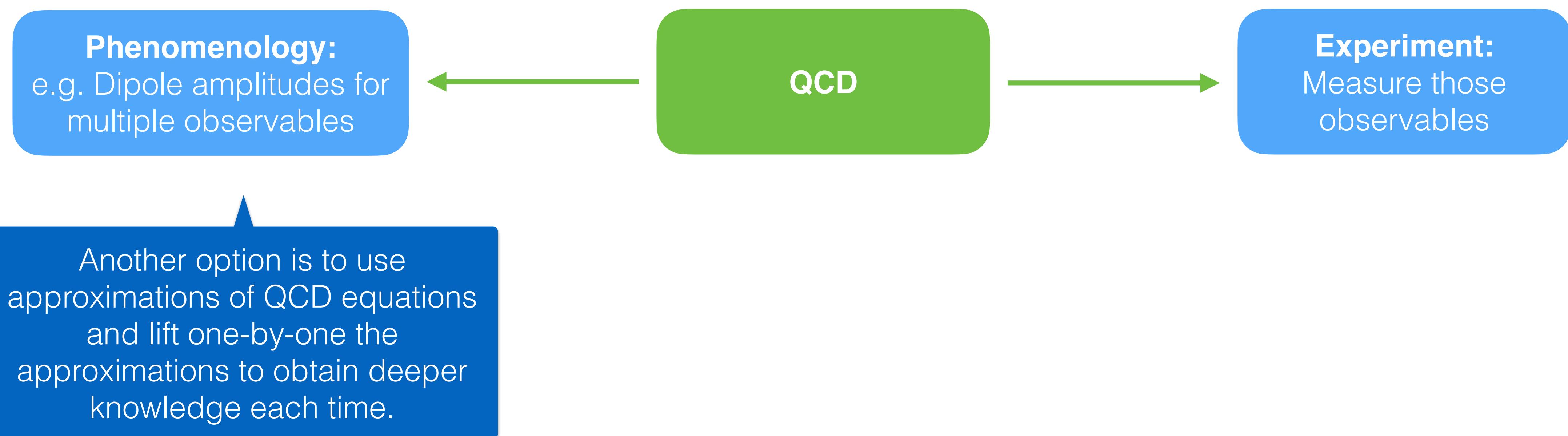
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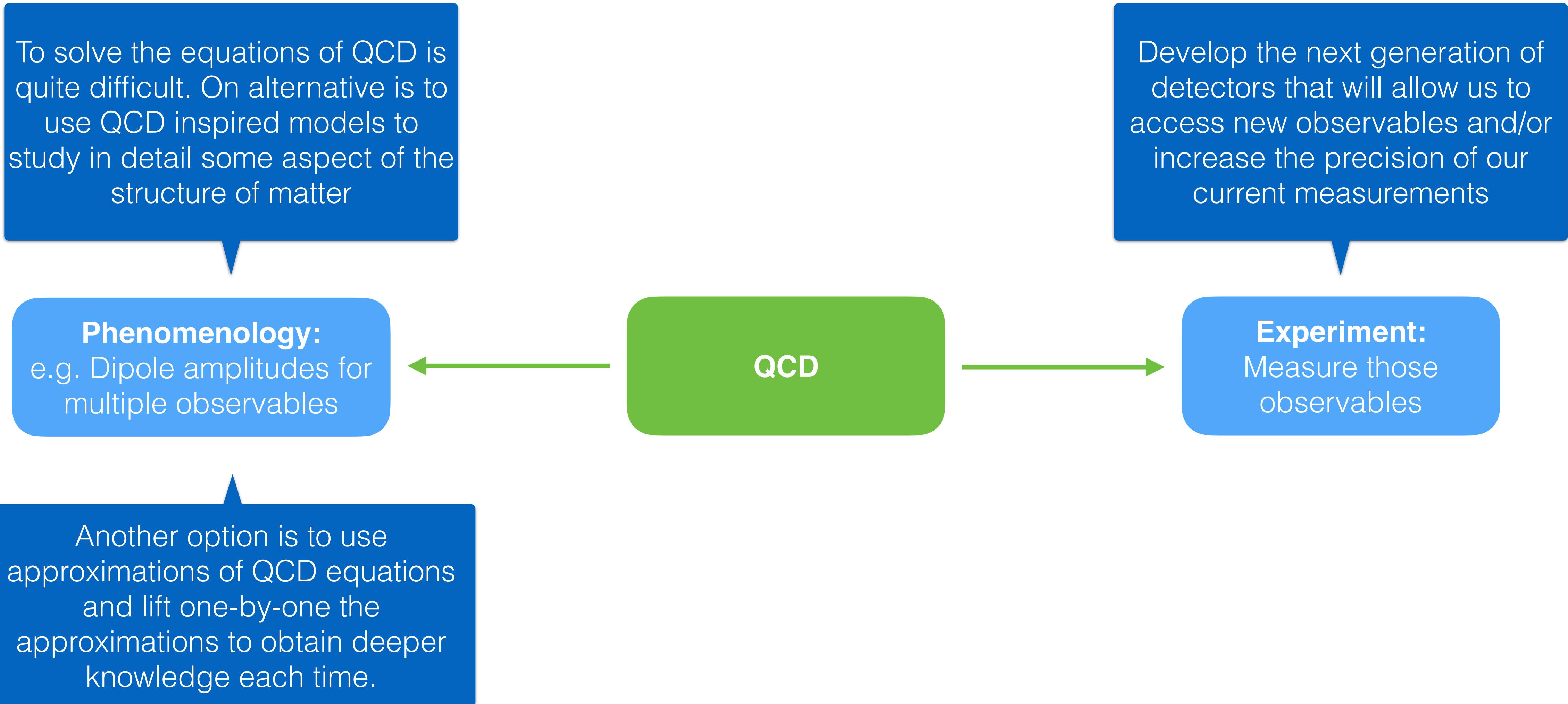
Another option is to use approximations of QCD equations and lift one-by-one the approximations to obtain deeper knowledge each time.

Specific areas of research

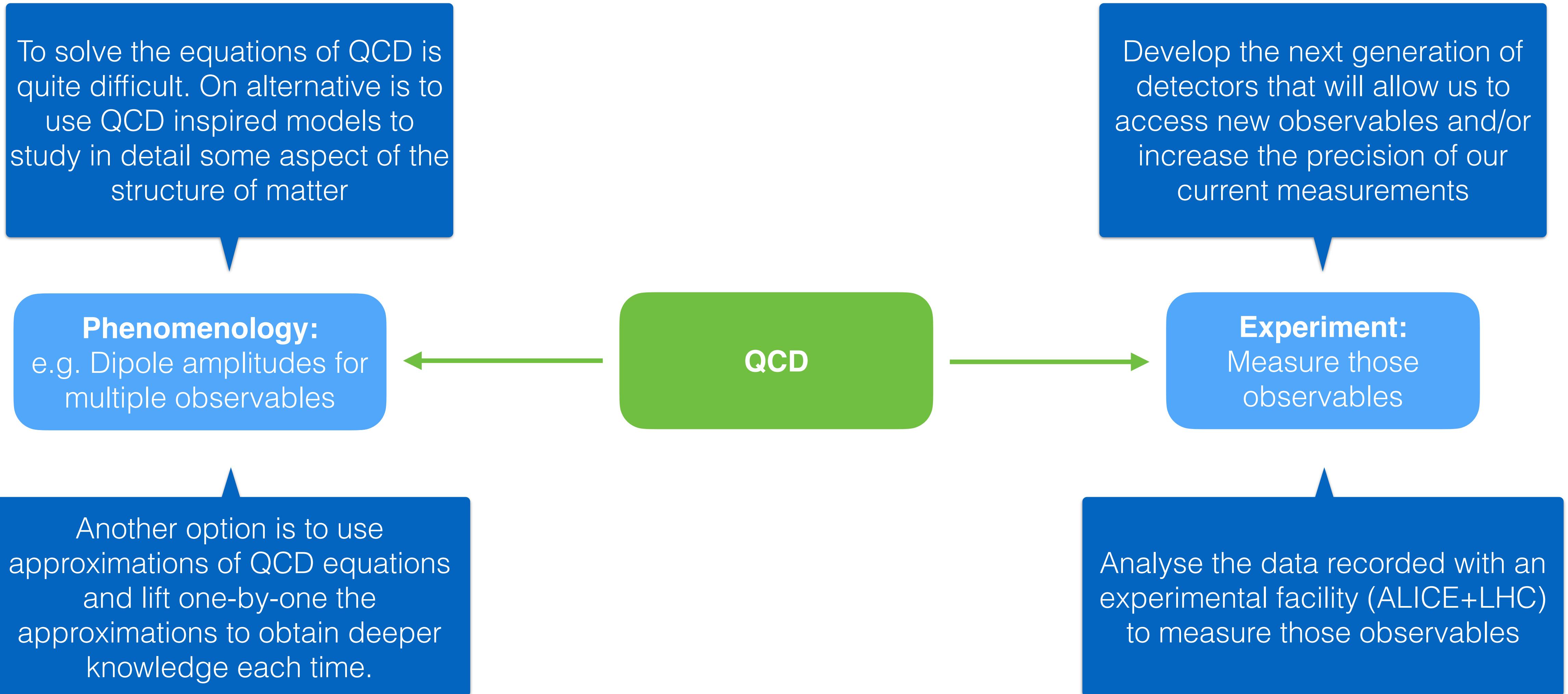
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Třetí miniworkshop difrakce a ultraperiferálních srážek

from Monday, 14 September 2020 (14:00) to Wednesday, 16 September 2020 (17:00)

A look at the agenda

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	10:30 Coffee-break	10:30 Coffee-break
	11:00 FDD+MFT	11:00 ALICE
	12:30 Lunch	
	14:00 Pheno	
	15:30 Coffee-break	
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	18:30 Workshop dinner	
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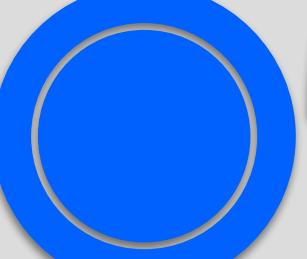
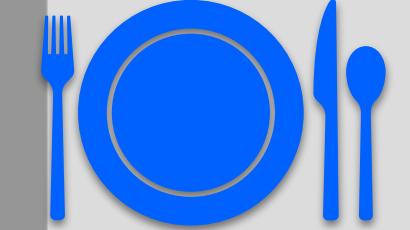
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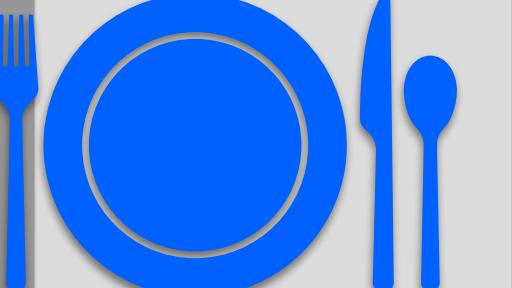
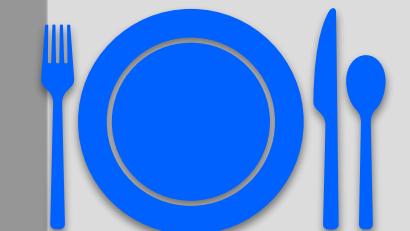
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Bonus track