

# On-shell unitarity methods for an effective field theory approach to classical and quantum gravity effects , P Van Hove

## Lecture 1

1. Why an effective field theory treatment of gravity?
2. Generalized on-shell unitarity method
3. Simplifying amplitude in quantum gravity with colour kinematic duality

## Lecture 2

1. Classical physics from loops
2. Amplitudes for Post-Newtonian and post-Minkowskian corrections
3. Equivalence principle and quantum gravity effects

## References

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