

Basics facts about representations can be found in [E] (available on Etingof's website): Krull-Schmidt theorem is in Sec 3.8, basics on finite dimensional algebras and their modules are in Sec 3.5 and 9. Basics on category $\mathcal{O}$ can be found in [H], Chapter 1 and Sections 3.8, 3.9, 3.13. The three theorems of Soergel are stated and proved in [S].

REFERENCES

- [E] P. Etingof et al, *Introduction to representation theory*. With historical interludes by Slava Gerovitch. Stud. Math. Libr., 59, AMS, Providence, RI, 2011. viii+228 pp.
- [H] J. Humphreys, *Representations of semisimple Lie algebras in the BGG category O*. Grad. Stud. Math., 94. AMS, Providence, RI, 2008. xvi+289 pp.
- [S] W. Soergel, *Kategorie O, perverse Garben und Moduln über den Koinvarianten zur Weylgruppe*. J. Amer. Math. Soc. 3 (1990), no. 2, 421–445.