Proposition 4.39. [288] < is an order relation. *Proof.* Reflexive property: n+0=n. Antisymmetric property: if n+k=1m and m + h = n then n + k + h = n therefore by cancellazione [27] h + k = 0, and for [27w] h = k = 0 so n = m. Transitive property: if n+k=m and m+h=p then n+k+h=p.