```
int_upper_well_founded  THM

⊢  ∀n:ℤ. WellFnd{i}({n...};x,y.x<y)  by Auto
|
1. n : ℤ
⊢  WellFnd{i}({n...};x,y.x<y)
| by FwdThru:
|    Thm* ∀r:(T→T→Prop), S:Type, f:(S→T).
|         WellFnd{i}(T;x,y.r(x,y)) ⇒ WellFnd{i}(S;x,y.r(f(x),f(y)))
|    {inv_image_ind_a}
|    on [ Thm* WellFnd{i}(ℕ;x,y.x<y)    {nat_well_founded} ]
|    Using:[S:= {n...} | f(x):= x-n]
|
2. WellFnd{i}({n...};x,y.x-n<y-n)
⊢  WellFnd{i}({n...};x,y.x<y)
  by Rewrite-1 by ∀x,y:{n...}. x-n<y-n ⟺ x<y
END
```