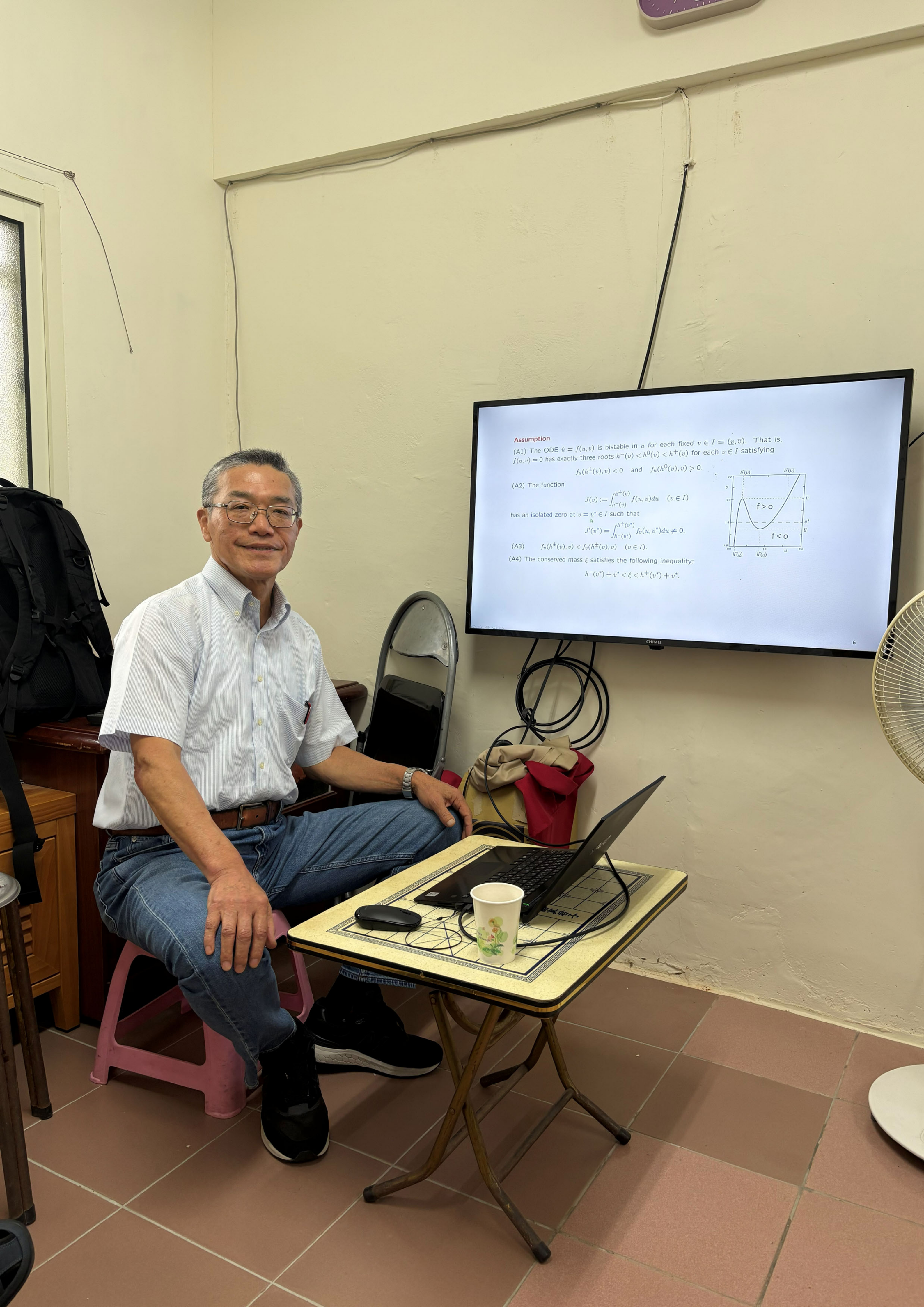
Assumption.
(A1) The ODE $\dot{u} = f(u,v)$ is bistable in u for each fixed $v \in I = (\underline{v}, \overline{v})$. That is, $f(u,v) = 0$ has exactly three roots $h^-(v) < h^0(v) < h^+(v)$ for each $v \in I$ satisfying
$f_u(h^\pm(v), v) < 0$ and $f_u(h^0(v), v) > 0$.
(A2) The function
$J(v) := \int_{h^-(v)}^{h^+(v)} f(u,v)du \quad (v \in I)$
has an isolated zero at $v = v^* \in I$ such that
$J'(v^*) = \int_{h^-(v^*)}^{h^+(v^*)} f_v(u,v^*)du \neq 0.$
(A3) $f_u(h^\pm(v), v) < f_v(h^\pm(v), v) \quad (v \in I).$
(A4) The conserved mass ξ satisfies the following inequality:
$h^-(v^*) + v^* < \xi < h^+(v^*) + v^*.$
f > o
f < o
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